Form 3160-3 (April 2004)

UNITED STATES DEPARTMENT OF THE INTEDIOD

FORM APPROVED OMB No. 1004-0137 Expires March 31, 2007

DEPARTMENT OF THE I BUREAU OF LAND MAN		5. Lease Serial No. UTU-079160			
APPLICATION FOR PERMIT TO I			6. If Indian, Allotee or Tribe Name N/A		
la. Type of work:	ER		7. If Unit or CA Agr N/A	eement, Na	ime and No.
lb. Type of Well: Oil Well Gas Well Other	Single Zone Multip	ole Zone	8. Lease Name and SKULL VAL		DERAL 21-1
2. Name of Operator GEOCHEM EXPLORATION, LLC		9. API Well No. 43-045-36	030		
3a. Address P.O.BOX 356 CASPER, WY 82602	3b. Phone No. (include area code) (307) 266-4409	·	10. Field and Pool, or WILDCAT		у
4. Location of Well (Report location clearly and in accordance with any State requirements.*) At surface 738' FSL & 1792' FEL 342184 \times 40.537735 At proposed prod. zone SAME SWSSE 44889014 -112863433 11. Sec., T. R. M. or Blk. and S					
14. Distance in miles and direction from hearest town or post office* 15 AIR MILES SSW OF DELLE		12. County or Parish TOOELE		13. State UT	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1,938'	16. No. of acres in lease2,560	17. Spacing	cing Unit dedicated to this well		
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. N/A	19. Proposed Depth 7,500'		MBIA Bond No. on file M LEASE WIDE UTB000253		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 4,506' GL	22. Approximate date work will star 06/01/2007	rt*	23. Estimated duration 6 WEEKS		
	24. Attachments			-	
The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form: 1. Well plat certified by a registered surveyor. 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). 4. Bond to cover the operations unless covered by an existing bond on file Item 20 above). 5. Operator certification 6. Such other site specific information and/or plans as may be required by the authorized officer.					`
25. Signature	Name (Printed/Typed) BRIAN WOOD			Date 04/1	13/2007
Title	PHONE: (505) 466-8120	FAX	: (505) 466-9682		

BRADLEY G. HILL OFFICE NVIRONMENTAL MANAGER Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Name (Printed/Typed)

Conditions of approval, if any, are attached.

Federal Approval of this Action is Necessary

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on page 2)

RECEIVED

APR 1 6 2007

DIV. OF OIL. GAS & MINING

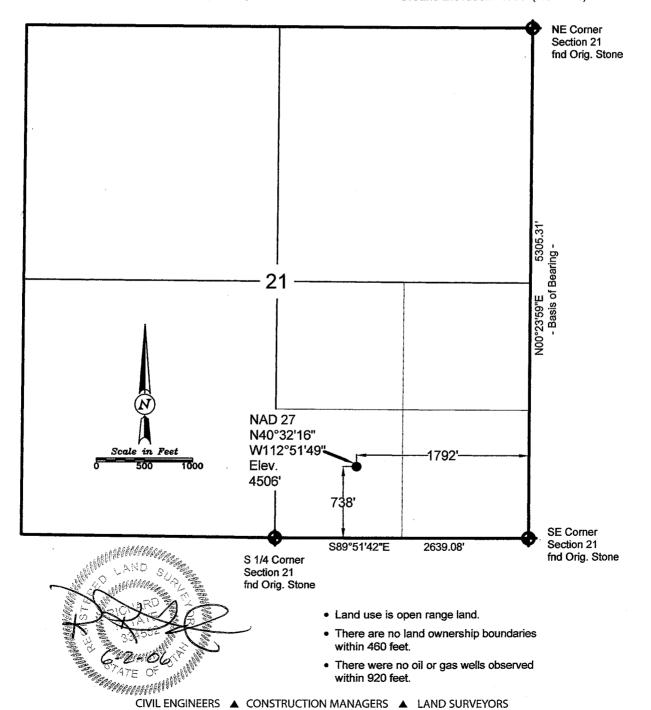


- www.andersoneng.com
 - Basis of Bearing is N00°23'59"E between the SE corner and NE corners of Section 21 from GPS observations taken 24-May-2006
 - Elevation values are derived as differential from SE corner of Section 21(4461) as shown on 7.5 minute USGS quadrangle

Well Location Survey

Merschat Minerals, LLC Skull Valley Federal 21-1

1792' fel & 738' fsl Section 21, T3S, R9W, SLB&M. Tooele County, Utah Ground Elevation- 4506' (NGVD29)



Drilling Plan

1. FORMATION TOPS

The estimated tops of important geologic markers are:

<u>Formation</u>	GL Depth	KB Depth	<u>Elevation</u>
Bonneville	0'	12'	+4,506'
Oquirrh	506'	518'	+4,000'
Lower Manning Canyon	1,306'	1,318'	+3,200'
Mississippi Manning Canyon	1,706'	1,718'	+2,800'
Great Blue	2,906'	2,918'	+1,600'
Humbug	4,006'	4,018'	+500'
Pine Canyon Deseret	4,806'	4,818'	-300'
Gardner	5,606'	5,618'	-1,100'
Devonian	6,606'	6,618'	-2,000'
Silurian	7,006'	7,018'	-2,500'
Total Depth (TD)	7,500'	7,512'	-2,994'

2. NOTABLE ZONES

The Devonian and Silurian are the target zones. No other mineral zones are expected. Most likely water zone (Bonneville) will be cemented off behind surface casing. Any other water zones will be protected with casing, cement, and weighted mud. Fresh water encountered during drilling will be recorded by depth, cased, and cemented. Oil and gas shows will be tested for commercial potential based on the well site geologist's recommendations.



3. PRESSURE CONTROL

BOP systems will follow Onshore Order #2 and API RP 53. The drilling contract has not yet been awarded. A typical model is on PAGE 3.

BOP controls will be installed before drilling the surface casing plug and stay in use until the well is completed or abandoned. Once out from under the surface casing, a \geq 3,000 psi BOP and choke manifold system will be used. System will include anchored choke lines, kelly cock, pit level indicators, and flow sensor. A sub with a full opening valve to fit the drill pipe and collars will be available on the rig floor in the open position at all times for use when kelly is not in use.

All BOP mechanical and pressure tests and inspections will be recorded on the daily driller's log. BOPs will be inspected and operated at least daily to assure good mechanical working order. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. Surface casing will be tested to $\geq 1,500$ psi and annular preventer to $\geq 2,000$ psi.

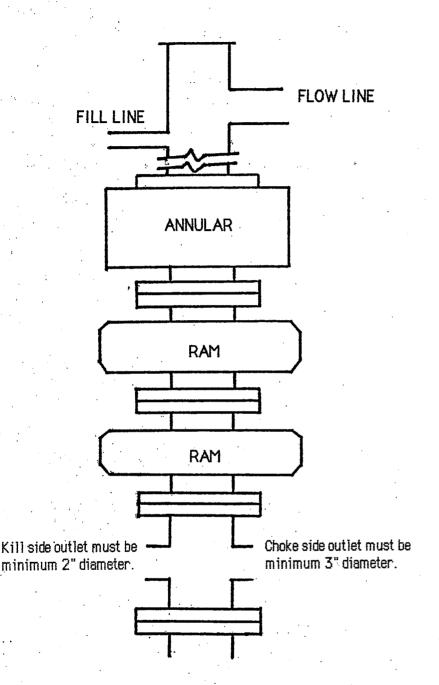
4. CASING & CEMENT

Hole Size	<u>O. D.</u>	<u>Weight</u>	<u>Grade</u>	<u>Type</u>	<u>Age</u>	Depth Set
20"	16"	75	J-55	Conductor	New	60'
12-1/4"	9-5/8"	36	J-55	ST&C	New	750'
8-3/4"	7"	23	HCN-80	LT&C	New	7,500'

Conductor pipe will be cemented to the surface with ≈50 sacks ready mix.

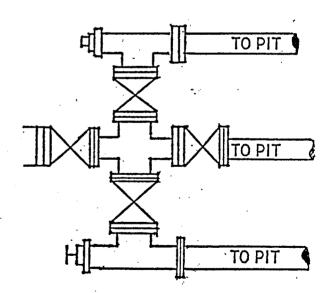
Surface casing will be cemented to the surface with ≈ 400 sacks premium cement + 2% CaCl₂ +1/4 pound per sack cellophane. Yield = 1.18 cubic feet per sack. Weight = 15.6 pounds per gallon. Excess: >100%. A cement float shoe, centralizer in the middle of the shoe joint, and a centralizer every fourth joint will be installed.





TYPICAL BOP STACK & CHOKE MANIFOLD

There will be at least 2 chokes and 2 choke line valves (3" minimum). The choke line will be 3" in diameter. There will be a pressure gauge on the choke manifold.



Kill line will be minimum 2" diameter and have 2 valves, one of which shall be a minimum 2" check valve.

Upper kelly cock will have handle available.
Safety valve and subs will fit all drill string connections in use.
All BOPE connections subjected to well pressure will be flanged, welded, or clamped.



Production casing will be cemented from TD to >500' above the highest pay zone with 35% excess. Devonian top is estimated to be at $\approx 6,606$ '. Thus, following calculations are based on a cement top at $\approx 6,000$ '. Cement with ≈ 275 sacks (332 cubic feet) 50/50 poz + 2% gel + 105 salt + 0.4% fluid loss preventer + 0.25 dispersant + 1/4 pound per sack cellophane. Yield = 1.21 cubic feet per sack. Weight = 14.4 pounds per gallon.

5. MUD PROGRAM

A fresh water based low solids non-dispersed mud system with a weight of ≈9.0 pounds per gallon, viscosity of 35 to 40, and ph of 9 to 9.5 will be used. Sufficient mud material to maintain mud properties, control lost circulation, and contain a blowout will be available at the well site while drilling. A mud logger will be on location once the well is below surface casing. A flow sensor or pit volume totalizer will be used from the base of the surface casing to TD.

6. CORES, TESTS, & LOGS

No cores are planned. There may be drill stem tests. A dual induction, SFL, bore hole compensated sonic, dip meter, and cement bond log will be run.

7. DOWN HOLE CONDITIONS

Maximum expected bottom hole pressure will be <1,900 psi and temperature will be <100°F. No hydrogen sulfide is expected.

8. OTHER INFORMATION

It is expected it will take \approx 4 weeks to drill and \approx 2 weeks to complete the well.



Surface Use Plan

1. <u>DIRECTIONS & EXISTING ROADS</u> (See Pages 10 - 12)

From Exit 77 on I-80 ...

Go South 17 miles on paved Utah 196 to the equivalent of Mile Post 19.9 Then turn right and go Northwest 6.3 miles on Eight Mile Spring Road Then turn left and go Southwest 9,155.6' cross country to the pad

Existing roads need no upgrading. Roads will be maintained to a standard at least equal to their present condition.

This APD is also serving as a BLM road right-of-way application from the county road to the lease boundary. Right-of-way will cross S2SE4 Section 15, T. 3 S., R. 9 W. Length will be 1,804'. Width will be 30' Area will be 1.24 acres.

2. ROAD TO BE BUILT (See Pages 11 & 12)

The new road will initially be flat bladed with a ≈ 16 ' wide running surface and a maximum disturbed width of ≈ 30 '. Maximum grade will be $\approx 5\%$. Maximum cut or fill will be ≈ 6 '. No fence is crossed. Four vehicles turn outs will be built adjacent to PI 2, 3, 4, and 5. An 18" x 50' culvert will be installed in the county road borrow ditch. Three 24" x 30' culverts will be installed along the new road. Pit run will be installed in low water crossings or where ruts become >6" deep. If production results, then the entire road will be crowned, ditched, and rocked.

3. EXISTING WELLS

There are no oil, gas, water, or injection wells within a one mile radius.



4. PROPOSED PRODUCTION FACILITIES

One water tank, three oil tanks, and a separator or heater-treater will be set on the pad. All will be painted a flat Carlsbad tan. All will be inside a dike.

5. WATER SUPPLY

Water will be trucked from private land (water right numbers 16-127 or 16-835) along the county road or state highway.

6. CONSTRUCTION MATERIALS & METHODS (See Pages 13 - 15)

The top 6" of topsoil will be stripped and stockpiled east of the pad. Subsoil from the reserve pit will be stored west of the pad. A diversion ditch will be cut along the west side of the subsoil pile. The north corner of the pad will be trimmed. A \geq 12 mil plastic liner will be installed in the reserve pit. Rock will be bought from an existing approved private pit.

7. WASTE DISPOSAL

The reserve pit will be fenced sheep tight on 3 sides with woven wire fence topped with barbed wire. The fourth side will be fenced once the rig moves off. The fence will be kept in good repair while the pit dries. Once dry, contents of the reserve pit will be buried in place. No oil will be discharged into the pit. All oil will go into tanks.

All trash will be placed in a portable trash cage. It will be hauled to a county landfill. There will be no burial or burning. Human waste will be disposed of in chemical toilets or holding tanks. Contents will be disposed at state approved dump stations.



8. ANCILLARY FACILITIES

There will be no air strip or camp. Camper trailers may be on location for the company man, tool pusher, and mud loggers.

9. WELL SITE LAYOUT

See PAGES 13 - 15 for views of the well pad, cross section, cut and fill diagram, reserve pit, trash cage, access onto the location, parking, living facilities, and rig orientation.

10. RECLAMATION

Reclamation will start when the reserve pit is dry. The pit will be back filled, well site contoured to match surrounding contours, and reserved topsoil evenly spread. Disturbed areas will be ripped before seeding. Seed will be broadcast in October or November with a BLM approved mix. Seeded areas will be harrowed and left rough after seeding. Water bars will be spaced every ≈100 yards on the new road, placed in cut, and skewed to drain. The new road will be blocked by a 36" high dirt pile at the county road.

If the well is a producer, then the reserve pit, remaining topsoil pile, and any areas of the pad not needed for work overs will be reclaimed as previously described.

11. SURFACE OWNER

All construction will be on federal land managed by BLM.



12. OTHER INFORMATION

The nearest hospital (Mountain West Medical Center @ (435) 843-3600) is a ≈ 1 hour drive away in northwest Tooele at 2055 North Main Street.

Archaeology report 5257-01-20616 was filed in August by P-III.

13. REPRESENTATION

Anyone having questions concerning the APD should call:

Brian Wood, Consultant
Permits West, Inc.
37 Verano Loop
Santa Fe, NM 87508
(505) 466-8120
FAX:

FAX: (505) 466-9682

Cellular: (505) 699-2276

The field representative will be:

Walter Merschat (307) 266-4409

FAX: (307) 266-1110

Geochem Exploration, LLC has the necessary consents from the proper lease owners to conduct lease operations in conjunction with this well. Bond coverage pursuant to 43 CFR 3104 for lease activities and operations is being provided by Geochem Exploration, LLC.

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with operations proposed herein will be performed by Geochem Exploration, LLC and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the



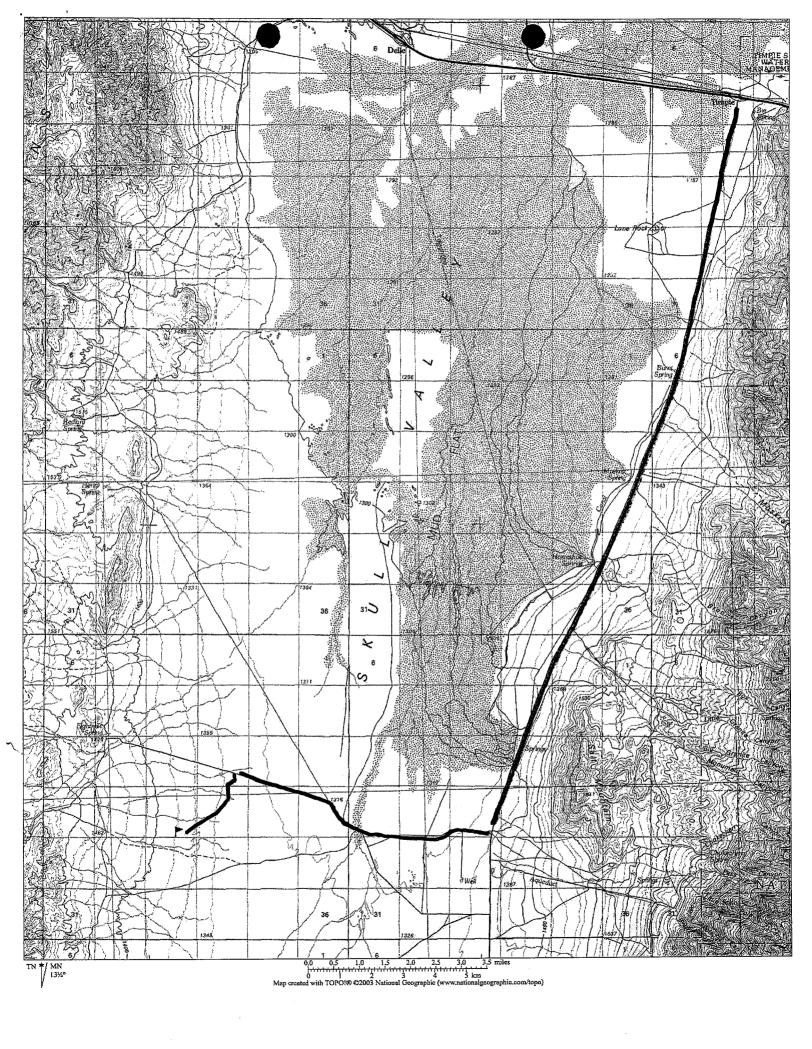
PAGE 9

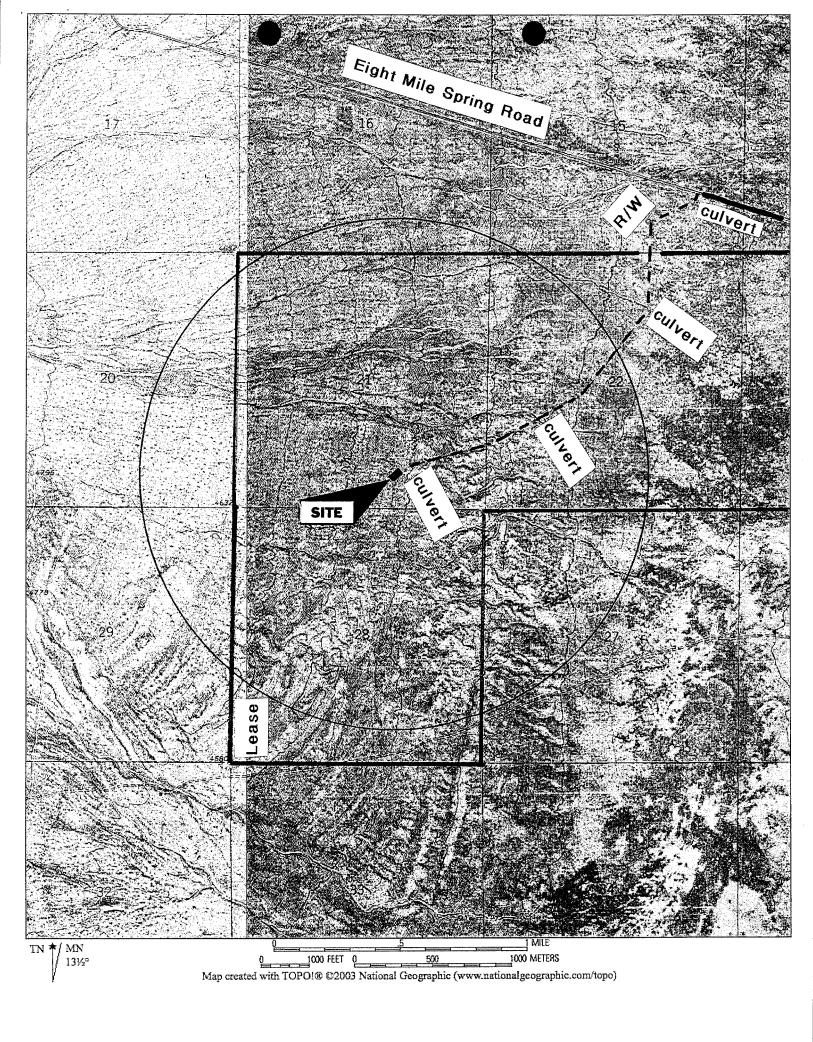
Geochem Exploration, LLC Skull Valley Federal 21-1 738' FSL & 1792' FEL Sec. 21, T. 3 S., R. 9 W. Tooele County, Utah

provisions of 18 U. S. C. 1001 for the filing of a false statement.

April 13, 2007

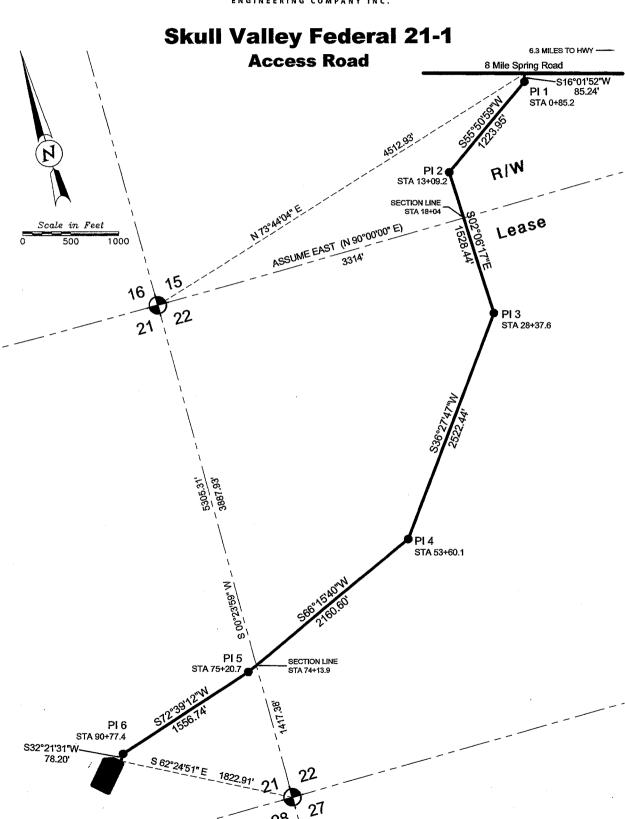
Brian Wood, Consultant

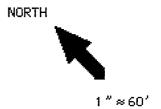


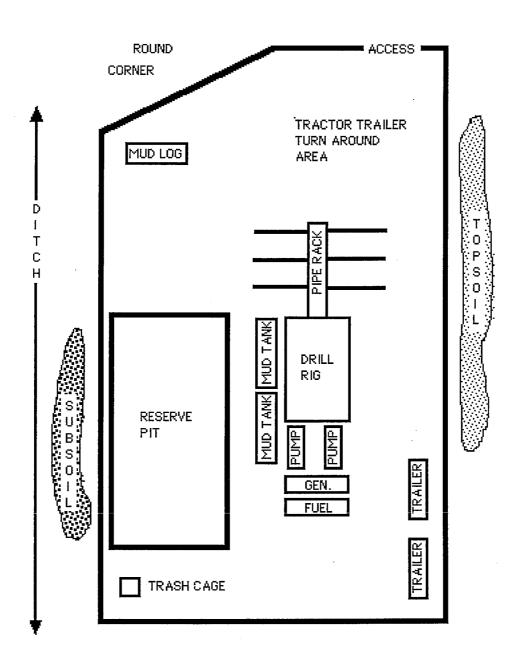


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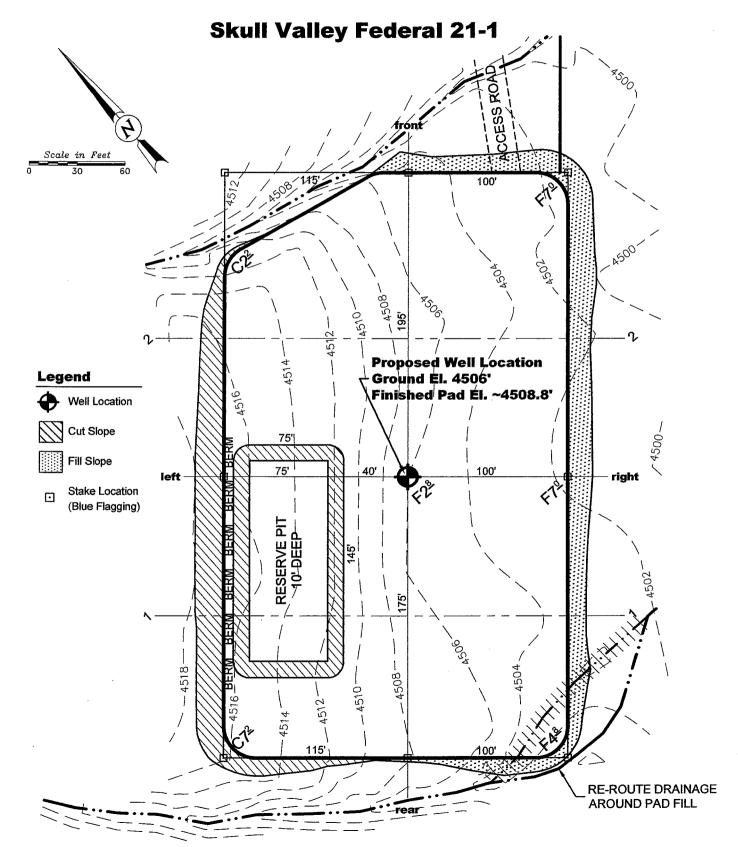








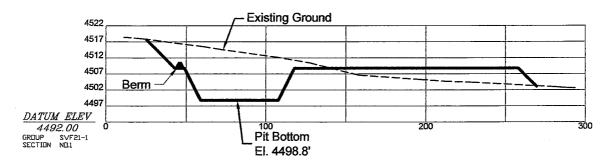
(801) 972-6235 FAX www.andersoneng.com



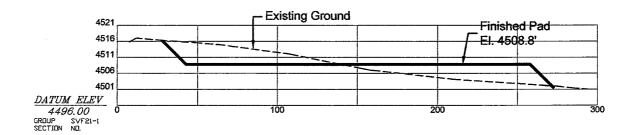
977 West 2100 South Salt Lake City, Utah 84119 (801) 972-6222 (801) 972-6235 FAX www.andersoneng.com



Skull Valley Federal 21-1



Section 1-1

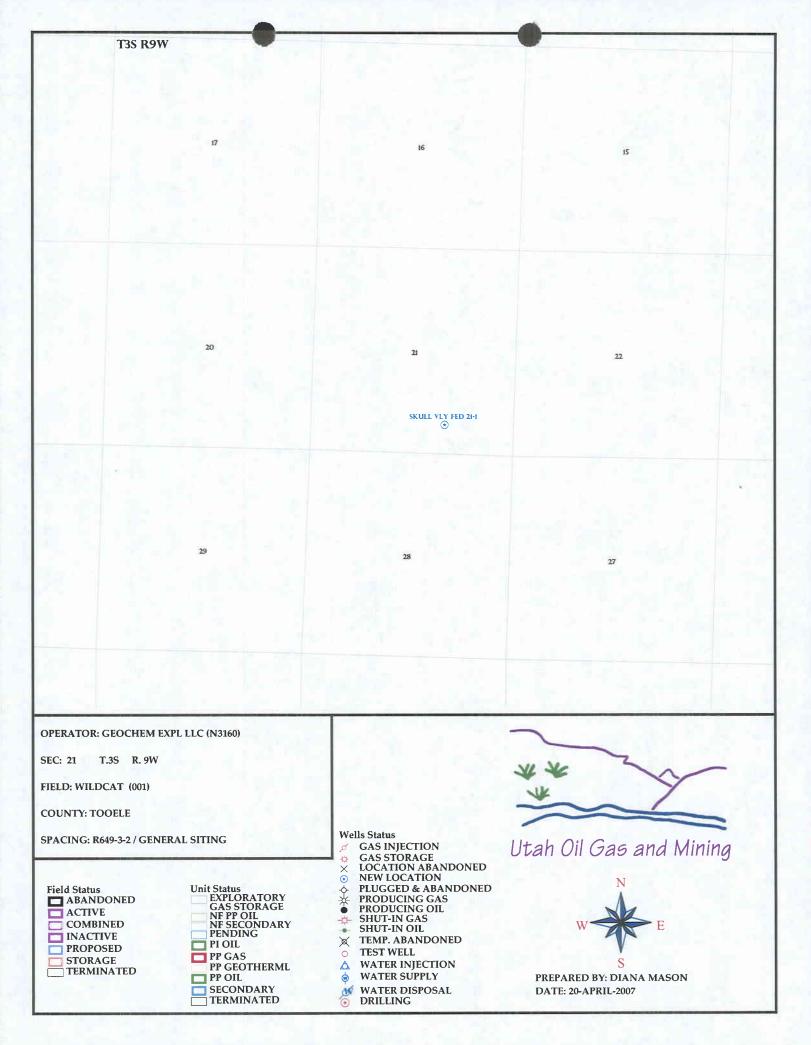


Section 2-2

Earthwork Summary

Cut: 8541 cubic yards Fill: 7312 cubic yards Net: 1229 cubic yards Anticipated Shrink 15%

APD RECEIVED: 04/16/2007			API NO. ASSIGNED: 43-045-30031				
WELL NAME:	SKULL VLY FED 21-1						
	GEOCHEM EXPLORATION, (N3160)		PHONE NUMBER:	505-466-8120)		
	BRIAN WOOD						
PROPOSED LO	CATION:		INSPECT LOCATN	BY: /	/		
	21 030S 090W 0738 FSL 1792 FEL		Tech Review	Initials	Date		
	0738 FSL 1792 FEL		Engineering				
COUNTY:			Geology				
	40.53774 LONGITUDE: -112.8634	0.1	Surface				
	EASTINGS: 342184 NORTHINGS: 44889 E: WILDCAT (1						
LEASE NUMBE	1 - Federal CR: UTU-079160 UER: 1 - Federal		PROPOSED FORMAT		1		
RECEIVED AN	ID/OR REVIEWED:	LOCATI	ON AND SITING:				
✓ Plat		R	649-2-3.				
	Fed[1] Ind[] Sta[] Fee[]						
	UTB000253)	Unit:_					
Notas	sh (Y/N)		649-3-2. Gener				
	Shale 190-5 (B) or 190-3 or 190-13		iting: 460 From Qt		etween Wells		
	Permit	R	649-3-3. Excep	tion			
r	16-127) Review (Y/N)	D	Drilling Unit				
(Dat	·		Board Cause No:				
IIA Fee S	Gurf Agreement (Y/N)		Eff Date: Siting:				
	nt to Commingle (Y/N)		649-3-11. Dire	ctional Dril	1		
COMMENTS: _		_					
STIPULATION	is: 1- dederate de	proved)				
	2 Spacing 19	Bor '					
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State of Utah

Department of Natural Resources

MICHAEL R. STYLER Executive Director

Division of Oil, Gas & Mining

JOHN R. BAZA
Division Director

JON M. HUNTSMAN, JR. Governor

GARY R. HERBERT Lieutenant Governor

April 23, 2007

Geochem Exploration, LLC P O Box 356 Casper, WY 82602

Re:

Skull Valley Federal 21-1 Well, 738' FSL, 1792' FEL, SW SE, Sec. 21,

T. 3 South, R. 9 West, Tooele County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann.§ 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-045-30031.

Sincerely,

Gil Hunt

Associate Director

pab Enclosures

cc:

Tooele County Assessor

Bureau of Land Management, Salt Lake Office

Operator: Geochem Exploration, LLC							
Well Name & Number	Skull Valley Fed	Skull Valley Federal 21-1					
API Number:	43-045-30031 UTU-079160						
Location: SW SE	Sec. 21	T. 3 South	R. 9 West				

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

Notify the Division with 24 hours of spudding the well.

• Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

 Contact Dustin Doucet at (801) 538-5281 office (801) 733-0983 home

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

- 4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.
- 5. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

UNITED STATES DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

5. Lease Serial No.
5. Lease Scrial No. UTU-079160

ease	Ser	ial	N	0.	

SUNDRY	NOTICES	AND	REPORTS	ON WELLS	
				_	

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160 - 3 (APD) for such proposals.

6.	If Indian, Allottee or Tribe Name
	N/A

FORM APPROVED

OM B No. 1004-0137 Expires: March 31, 2007

SUBMIT IN TRIPLICATE- Other instructions on reverse side.				7. If Unit or CA/Agreement, Name and/or No.			
. Type of Well ☐ ☐ Gas Well ☐ ☐ Other					N/A 8. Well Name and No.		
2. Name of Operator GEOCHEM EXPLORATION, LLC					SKULL VALLEY FEDERAL 21-1 9. API Well No.		
3a. Address P. O. BOX 356, CAPSER, WY 82602		3b. Phone No. (include 307 266-4409	area code)	43-045-30031 10. Field and Pool, or Exploratory Area			
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)			WILDO	AT			
738' FSL & 1792' FEL 21-3S-9W SLM			11. County or Parish, State				
				TOOEI	E COUNTY, UT		
12. CHECK API	PROPRIATE BOX(ES) TO	INDICATE NATUR	E OF NOTICE, R	EPORT, OR	OTHER DATA		
TYPE OF SUBMISSION		TYF	E OF ACTION				
Notice of Intent Subsequent Report Final Abandonment Notice	Acidize Alter Casing Casing Repair Change Plans Convert to Injection	Deepen Fracture Treat New Construction Plug and Abandon Plug Back	Production (Statement of Statement of Statem	ŕ	Water Shut-Off Well Integrity Other		

If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Will change bottom 1,000' of long string from 23# to 26#. See attached worksheet. Attached sketch shows interim reclamation & location of proposed production facilities. Topsoil from road will be windrowed beside the road. Road will be crowned, ditched, and rock surfaced before drilling. Rock surface will be 6"-8" pit run hauled from private land near Grantsville.

> RECEIVED MAY 3 1 2007

Caio: Iniliais: DIV. OF OIL, GAS & MINING

DT 3 6 3 6 1 / 1700001

cc: BLM, Merscnat, UDOGM	e					
14. I hereby certify that the foregoing is true and co Name (Printed/Typed)	orrect					
BRIAN WOOD (PHO	IONE 505 466-8120) Title	CONSULTANT	(FAX 505 466-9682)			
Signature Faculta	Date	05/26/2007				
THIS SPACE FOR FEDERAL OR STATE OFFICE USE						
Approved by Conditions of approval, if any, are attached. Approval of certify that the applicant holds legal or equitable title to which would entitle the applicant to conduct operations Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 12	of this notice does not warrant or o those rights in the subject lease is thereon.	Titl Accepted by the Utah Division of Office, Gas and Mining				
States any false, fictitious or fraudulent statements or rep	epresentations as to any matter within	termisdelinh	department of agoney of the office			
(Instructions on page 2)	B	y: USING				

Casing Design Worksheet - GEOCHEM EXPLORATION, Tooele County, Utah 21-38-9W

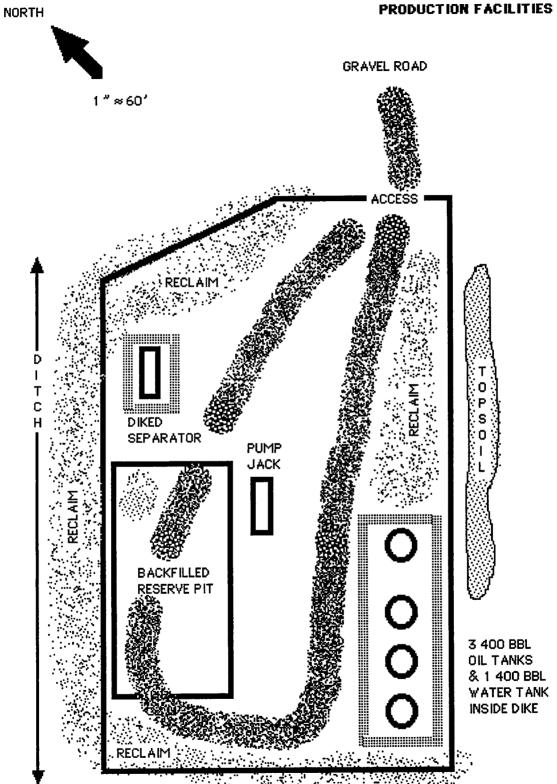
	Surface Casing										
Size	Grade	#/foot	Collapse	Yield	Tensile	Coupling	Length	Weight	Mud Wt		
9.625	J-55	36	2020	3520	394	ST&C	750	27,000	9		
			P	roduction Casing	5						
Size	Grade	#/foot	Collapse	Yield	Tensile	Coupling	Length	Weight	Mud Wt		
7 7	N-80 N-80	23 26	3830 5410	6340 7240	442 519	LT&C LT&C	6,500 1,000	149,500 26,000 -	9		
						Totals:	7,500	175,500			
			C	asing Parameters Tensile	s						
		SF,	= Tensile /; Must F	exceed 1.8 for Dry o	r 1.6 for Bouyant						
	9.625 7	Surf. Prod.	394000 / 442000 /	27,000 175,500	= =	14.6 2.5					
				Collapse							
	SF c	= Collapse / (M	laximum Formation Pressu	re) or (Mud Gradie	nt X T. V. D.); Must Exc	ceed 1.125					
	9.625 7	Surf. Prod.	2020 / 5410 /	350.60 3,505.95	=	5.8 1.5	(1.3 @ base of 23# 7")				
				Burst							
	SF ,	= Burst / (Max	imum Formation Pressure)	or (Mud Gradient	X T. V.D.); Must Exceed	1 1.0					
	9.625 7	Surf. Prod.	3520 / 6340 /	350.60 3,505.95	=	10.0 1.8					
			Anticipated Bottom T.V.D. X Mud	Hole Pressure (ABH Wt. X 0.05194 = Hy		3375 psi	estimated				

Mud Weight at the Casing Shoe:

 Surface
 350.60

 Intermediate
 3,505.95

INTERIM RECLAMATION & PRODUCTION FACILITIES





Date

A		- ۱۷۱۶	D 1		
Form 3160-5 (August 2007) DEF BUR	UNITED STATE PARTMENT OF THE I EAU OF LAND MAN. IOTICES AND REPO form for proposals to Use Form 3160-3 (A	RECEIVENTERIOR APR 07 AGEMENT APR 07 PRIS ON WEEQUE	^{72 & WINING} 5008		RM APPROVED B No. 1004-0137 res: July 31, 2010 Tribe Name
Do not use this t abandoned well.	form for proposals to Use Form 3160-3 (A	o drill o kto re-enter PD) for such propos	an sals.	N/A	
SUBMI	T IN TRIPLICATE – Other	instructions on page 2.		7. If Unit of CA/Agreem	ent, Name and/or No.
1. Type of Well Oil Well Gas W				8. Well Name and No. SKULL VALLEY FE	DERAL 21-1
2. Name of Operator GEOCHEM EXPLORATION, LLC	C			9. API Well No. 43-045-30031	
3a. Address P.O. BOX 356, CASPER, WY 82602		3b. Phone No. (include area (307) 266-4409	code)	10. Field and Pool or Exp WILDCAT	ploratory Area
4. Location of Well (Footage, Sec., T., 738' FSL & 1792' FEL 21-3S-9W SLM	R.,M., or Survey Description)			11. Country or Parish, St TOOELE, UT	ate
12. CHEC	CK THE APPROPRIATE BO	X(ES) TO INDICATE NATI	JRE OF NOTIC	CE, REPORT OR OTHER	DATA
TYPE OF SUBMISSION			TYPE OF ACT	ION	
Notice of Intent Subsequent Report	Acidize Alter Casing Casing Repair Change Plans	Deepen Fracture Treat New Construction Plug and Abandon	Recla	action (Start/Resume) amation mplete porarily Abandon	Water Shut-Off Well Integrity Other RENEW APD
Final Abandonment Notice	Convert to Injection	Plug Back		r Disposal	
13. Describe Proposed or Completed Of the proposal is to deepen directions. Attach the Bond under which the violeting completion of the involvesting has been completed. Final determined that the site is ready for the proposed of the pr	ally or recomplete horizontall work will be performed or pro red operations. If the operation Abandonment Notices must be	y, give subsurface locations a vide the Bond No. on file wit on results in a multiple compl	ind measured and BLM/BIA. Retion or recomplete.	d true vertical depths of a equired subsequent repor- letion in a new interval, a	Il pertinent markers and zones. ts must be filed within 30 days Form 3160-4 must be filed once
PLEASE RENEW APD FOR 1 YEA	R. TRYING OBTAIN RIG F	FOR REMOTE LOCATION			
	Uta	proved by the ah Division of Gas and Mining			
	Date: S	21-09-08			Y SENT TO OPERATOR 9: 4 14 2008 als: 45
14. I hereby certify that the foregoing is to KITTY WOOD	rue and correct. Name (Printed	d/Typed) Title CON	SULTANT		
Signature Attles	March	Date 03/28	3/2008		

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Title

Office

Approved by

Application for Permit to Drill Request for Permit Extension Validation

Validation (this form should accompany the Sundry Notice requesting permit extension)

API:	43-045-30031	
Well Name:	SKULL VALLEY FEDERAL 2	1-1
Location:	SWSE 21-3S-9W SLM	
Company Per	rmit Issued to: GEOCHEN	M EXPLORATION, LLC
Date Original	Permit Issued: 2005	4
	4/23/	0 /
		nts to drill on the property as permitted
-		n as submitted in the previously
approved app	lication to drill, remains val	id and does not require revision.
Fallouring is a	abaddiat of come items to	leted to the application, which abould be
<u>verified.</u>	checklist of some items re	lated to the application, which should be
vermeu.		
If located on p	private land, has the owner:	ship changed, if so, has the surface
-	en updated? Yes □ No □	· 9 🛦 –
g	on apacitor i comitte	**//
Have any well	ls been drilled in the vicinity	of the proposed well which would affect
-	r siting requirements for this	
	_	ents put in place that could affect the
permitting or o	operation of this proposed	well? Yes□No☑
		and results including assembles or right
	een any changes to the acc could affect the proposed	ess route including ownership, or right-
oi-way, which	could affect the proposed	location: 165 140 12
Has the annro	wed source of water for dri	lling changed? Yes□No☑
i ias tile appic	water for an	ming changed: 100m140m
Have there be	een any physical changes t	o the surface location or access route
which will requ	uire a change in plans from	what was discussed at the onsite
evaluation? Y		
	•	
ls bonding stil	Il in place, which covers thi	s proposed well? Yes ☑ No □
1)		
1/1/		3/28/2008
1/1/10	7/1000	
Signature		Date
Title: CONSU	TOTANTOT	
THE CONSU	LIANI	·
Representing	GEOCHEM EXPLORATION	I, LLC
		7

Form 3160-5 (April 2004)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED
OM B No. 1004-0137
Expires: March 31, 2007

5.	Lease Sea	ial No.		
	UTU-0	79160		

SUNDRY NOTICES AND REI	PORTS ON	WELLS	UTU-079	160
Do not use this form for proposals t	to drill or to	re-enter an	6. If Indian,	Allottee or Tribe Name
abandoned well. Use Form 3160 - 3 (APD) for suc	h proposals.	N/A	
SUBMIT IN TRIPLICATE- Other inst	ructions on r	everse side.	7. If Unit or 0	CA/Agreement, Name and/or No.
1. Type of Well ☐ ☐ Gas Well ☐ ☐ Other		5	8. Well Nam	e and No.
2. Name of Operator GEOCHEM EXPLORATION, LLC	•		SKULL 9. API Wel	VALLEY FEDERAL 21-1 l No.
3a. Address P.O. BOX 356, CAPSER, WY 82602	3b. Phone No. (307 266-440	include area code) 9	43-045-3	80031 Pool, or Exploratory Area
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)			WILDCAT	
738' FSL & 1792' FEL 21-3S-9W SLM		•	11. County of	r Parish, State
*:-			TOOEL	E COUNTY, UT
12. CHECK APPROPRIATE BOX(ES) TO	INDICATE N.	ATURE OF NOTICE, I	REPORT, OR	OTHER DATA
TYPE OF SUBMISSION	**	TYPE OF ACTION		
☐ Acidize	Deepen Fracture Treat New Constru Plug and Aba Plug Back	ction Recomplete	bandon	Water Shut-Off Well Integrity Other
13. Describe Proposed or Completed Operation (clearly state all perting the proposal is to deepen directionally or recomplete horizontal Attach the Bond under which the work will be performed or provious following completion of the involved operations. If the operation testing has been completed. Final Abandonment Notices shall be determined that the site is ready for final inspection.)	ly, give subsurface ide the Bond No. o results in a multipl	locations and measured and to in file with BLM/BIA. Requi e completion or recompletion	ue vertical depths red subsequent re in a new interval,	of all pertinent markers and zones. ports shall be filed within 30 days a Form 3160-4 shall be filed once
Request APD approval be extended f or 2 years. \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ 	AX.	Approved Utah Divi Oil, Gas an	by the sion of d Mining	
COPY SENT TO	OPERATOR	Date: <u>04-2</u>	7-09	↑
cc: BLM, Merschat, UDOGM Date: 4.28 Initials: 1	(12001 LS	By: Lal	MI	
14. I hereby certify that the foregoing is true and correct Name (Printed/Typed)	· ·]			
BRIAN WOOD (PHONE 505 40	(6-8120) T	itle CONSULTANT		(FAX 505 466-9682
Signature Edulo2)ate	04/20/2009	

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Date -Title

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



Application for Permit to Drill Request for Permit Extension Validation

Validation
(this form should accompany the Sundry Notice requesting permit extension)

API: 43-045-30031 Well Name: SKULL VALLEY FEDERAL 21-1 Location: SWSE 21-3S-9W, TOOELE COUNTY Company Permit Issued to: GEOCHEM EXPLORATION, LLC Date Original Permit Issued: 4/23/2007
The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.
Following is a checklist of some items related to the application, which should be verified.
f located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes⊡No⊡
Have any wells been drilled in the vicinity of the proposed well which would affect he spacing or siting requirements for this location? Yes ☐ No ☑
Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes□No☑
Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes ☐ No ☑
Has the approved source of water for drilling changed? Yes□No☑
Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes□No☑
s bonding still in place, which covers this proposed well? Yes ☑ No ☐
Signature Date
Title: Consultant
Representing: Geochem Exploration, LLC RECEIVED
ADD 1 1 2800

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

ROUTING
1. DJJ
2. CDW

	X -	Change	of O	perator	(Well	Sold
--	-----	--------	------	---------	-------	------

Operator Name Change/Merger

A - Change of Operator (Wen Solu)		1		Change/Mci	J	
The operator of the well(s) listed below has change	ged, effective:			9/15/2009		
FROM: (Old Operator):		TO: (New O ₁	perator):			
N3160-Geochem Exploration, LLC		N3615-V.A. R		LC		
PO Box 356			x 50790			
Casper, WY 82602		Casper	, WY 8260	05		
Phone: 1 (307) 266-4409		Phone: 1 (307)	473-1407			
CA No.	·	Unit:				
WELL NAME	SEC TWN RNG		ENTITY	LEASE TYPE	WELL	WELL
WELL NAME	SEC IWN KIG	ATTIO	NO	LEASE III	TYPE	STATUS
SKULL VLY FED 21-1	21 030S 090W	4304530031	110	Federal	OW	APD
OPERATOR CHANGES DOCUMENT.	ATION					
Enter date after each listed item is completed						
1. (R649-8-10) Sundry or legal documentation wa		_		9/23/2009	-	
2. (R649-8-10) Sundry or legal documentation wa		-		9/23/2009		
3. The new company was checked on the Depart	nent of Commerce	e, Division of C	orporation	s Database on:		9/23/2009
4a. Is the new operator registered in the State of U	Jtah: I	Business Numbe	er:	7450497-0161	_	
5a. (R649-9-2)Waste Management Plan has been re	ceived on:	-	requested	9/30/09	-	
5b. Inspections of LA PA state/fee well sites complete.	lete on:	n/a	_			
5c. Reports current for Production/Disposition & S	undries on:	n/a	-			
6. Federal and Indian Lease Wells: The BL	M and or the BIA h	nas approved the	- e merger, na	ıme change,		
or operator change for all wells listed on Federa	al or Indian leases o	on:	BLM	not yet	BIA	n/a
7. Federal and Indian Units:				-		_
The BLM or BIA has approved the successor	of unit operator for	r wells listed on	:	n/a		
8. Federal and Indian Communization Ag	_				-	
The BLM or BIA has approved the operator:	for all wells listed v	vithin a CA on:		n/a		
9. Underground Injection Control ("UIC"	approved UIC Forr	n 5, Tr <mark>ansfer o</mark>	f Authority	to	•	
Inject, for the enhanced/secondary recovery un					n/a	
DATA ENTRY:						
1. Changes entered in the Oil and Gas Database	on:	9/30/2009				
2. Changes have been entered on the Monthly Op	oerator Change Sp	read Sheet on:		9/30/2009	_	
3. Bond information entered in RBDMS on:		n/a	_			
4. Fee/State wells attached to bond in RBDMS on		n/a	_			
5. Injection Projects to new operator in RBDMS of		n/a				
6. Receipt of Acceptance of Drilling Procedures f	or APD/New on:		9/30/2009	•		
BOND VERIFICATION:		T. ITTD 0.002.52				
1. Federal well(s) covered by Bond Number:		UTB000253	-			
2. Indian well(s) covered by Bond Number:3a. (R649-3-1) The NEW operator of any state/fe	e well(s) listed cov	n/a ered by Bond N	_ iimher	n/a		
	, ,	*	,	11/ a	-	
3b. The FORMER operator has requested a releas LEASE INTEREST OWNER NOTIFIC	•	nen bond on:	n/a	-		
4. (R649-2-10) The NEW operator of the fee wells		l and informed b	ny a letter fr	om the Division		
of their responsibility to notify all interest owne			by a letter if n/a	om me Division		
COMMENTS:	10 of this change on	••	II/ G			

RECEIVED Form 3160-5 SEP 2 3 2009 **UNITED STATES** FORM APPROVED OM B No. 1004-0135 (September 2001) DEPARTMENT OF THE INTERIO Expires: January 31, 2004 BUREAU OF LAND MANAGENENT JIL, GAS & MINING SUNDRY NOTICES AND REPORTS ON WELLS 5. Lease Serial No. UTU-079160 6. If Indian, Allottee or Tribe Name Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160 - 3 (APD) for such proposals. 7. If Unit or CA/Agreement, Name and/or No. SUBMIT IN TRIPLICATE- Other instructions on reverse side. I. Type of Well ☐ ☐ Oil Well ☐ ☐ ☐ Gas Well □□ Other 8. Well Name and No. SKULL VALLEY FEDERAL 21-1 2. Name of Operator VA RESOURCES, LLC N3615 9. API Well No. 43-045-30031 3a Address 3b. Phone No. (include area code) P.O. BOX 50790, CASPER, WY 82605 307-473-1407 10. Field and Pool, or Exploratory Area WILDCAT 4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 11. County or Parish, State 738' FSL & 1792' FEL 21-3S-9W SLM TOOELE COUNTY, UT 12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION Acidize Production (Start/Resume) Water Shut-Off Deepen Notice of Intent Alter Casing Well Integrity Fracture Treat Reclamation Casing Repair Other Operator Change New Construction Recomplete Subsequent Report Change Plans Temporarily Abandon Plug and Abandon Final Abandonment Notice Convert to Injection Plug Back Water Disposal 13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filled once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.) Geochem Exploration, LLC hereby assigns all rights and title in this well to VA Resources, LLC. ASSIGNOR: PREDICIT 9-15-69 Name VA Resources, LLC hereby accepts assignment of and full responsibilty for all terms and conditions of BLM and UDOGM approval for this well from Geochem Exploration, LLC. ASSIGNEE: MANAGING MEMBER 9/15/09
BLM BOND UTB 000253 ce: BLM (FO & SO), UDOGM 14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) KITTY WOOD (PHONE 505-466-8120) Title CONSULTANT (FAX 505-466-9682)

14. I hereby certify that the foregoing is true and correct Name (Printed/Typed)

KITTY WOOD (PHONE 505-466-8120)

Title CONSULTANT (FAX 505-466-9682)

Date

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title 18 U.S.C. Section 1601 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fletitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

APPROVED 9 130 1 3009

Correct Russell

Division of Oil, Gas and Mining

Earlene Russell, Engineering Technician

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

Request to Transfer Application or Permit to Drill

(This form should accompany a Sundry Notice, Form 9, requesting APD transfer)

Well name:	SKULL VALLEY FEDERAL 21-1		
API number:	4304530031		
Location:	Qtr-Qtr: SWSE Section: 21 Township: 3S Range: 9W		
Company that filed original application:	GEOCHEM EXPLORATION, LLC		
Date original permit was issued:	04/23/2007		
Company that permit was issued to:	GEOCHEM EXPLORATION, LLC		

Check one	Desired Action:			
	Transfer pending (unapproved) Application for Permit to Drill to new operator			
	The undersigned as owner with legal rights to drill on the property, hereby verifies that the information as submitted in the pending Application for Permit to Drill, remains valid and does not require revision. The new owner of the application accepts and agrees to the information and procedures as stated in the application.			
✓	Transfer approved Application for Permit to Drill to new operator			
	The undersigned as owner with legal rights to drill on the property as permitted, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.			

Following is a checklist of some items related to the application, which should be verified. If located on private land, has the ownership changed?		
Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?		1
Have there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?		1
Have there been any changes to the access route including ownership or right-of-way, which could affect the proposed location?		✓
Has the approved source of water for drilling changed?		✓
Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?		1
Is bonding still in place, which covers this proposed well? Bond No. BLM UTB000253		✓

Any desired or necessary changes to either a pending or approved Application for Permit to Drill that is being transferred, should be filed on a Sundry Notice, Form 9, or amended Application for Permit to Drill, Form 3, as appropriate, with necessary supporting information as required.

RECEIVED

Name (please print) KATHRYN K WOOD	Title CONSULTANT	CED 0.0000
Signature Kattury & Noon	Date 09/30/2009	SEP 3 U 2009
Representing (company name) VA RESOURCES, LLC	•	DIV OF OIL CAS & MINING
		DIV. OF OIL, GAS & MINING

The person signing this form must have legal authority to represent the company or individual(s) to be listed as the new operator on the Application for Permit to Drill.

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Con	mpany:	VA RESO	UCES, L	LC			
Well Name	:	SKULL V	LY FED	21-1		-	
Api No:	43-045-30	031		_Lease Ty	pe: <u> </u>	EDERAL	
Section 21	Township_	03S Range	09W	County_	T O O	ELE	
Drilling Cor	ntractor <u>C</u>	RAIG'S ROUS	TABOU'	Γ SERV	_RIG #_	BUCKET	.,
SPUDDE	D:						
	Date	10/14/2009					
	Time	9:30 AM					
	How	DRY					
Drilling wi	ill Commen	ce:				······································	
Reported by		JEFF I	BENNET		W	3***	
Telephone #_		(307) 2	259-555 <u>5</u>		3704		
Date	10/15/2009	Signed	CHD				

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING						SE DESIGNATION AND SERIAL NUMBER: J-079160		
	SUNDRY	NOTICES A	ND REPORTS	10 8	N WELI	_S	6. IF I	NDIAN, ALLOTTEE OR TRIBE NAME:
Do r	not use this form for proposals to drill ne drill horizontal la	ew wells, significantly deep terals. Use APPLICATION	oen existing wells below curr	ent bot	tom-hole depti such proposal	n, reenter plugged wells, or to	7. UNI N/A	T or CA AGREEMENT NAME:
1. TY	PE OF WELL OIL WELL							LL NAME and NUMBER: JLL VALLEY FEDERAL 21-1
	ME OF OPERATOR: RESOURCES, LLC							NUMBER: 4530031
	DDRESS OF OPERATOR: D. BOX 50790	CASPER	STATE WY ZIP	8260)5	PHONE NUMBER: (307) 473-1407		ELD AND POOL, OR WILDCAT: LDCAT
FC	OCATION OF WELL DOTAGES AT SURFACE: 738 F.	SL & 1792' FEL		W			COUN	rv: TOOELE
Q	TR/QTR, SECTION, TOWNSHIP, RANG	GE, MERIDIAN: 3443	E 21 30 9	VV	, S		SIAIE	UTAH
11.		ROPRIATE BOX	(ES TO INDICAT	ΈN		OF NOTICE, REPO	DRT, O	R OTHER DATA
•	TYPE OF SUBMISSION					PE OF ACTION		
	NOTICE OF INTENT	ACIDIZE			DEEPEN			REPERFORATE CURRENT FORMATION
	(Submit in Duplicate)	ALTER CASING		님	FRACTURE			SIDETRACK TO REPAIR WELL
	Approximate date work will start:	CASING REPAIR		님	NEW CONST			TEMPORARILY ABANDON
		CHANGE TO PR		닏	OPERATOR		ᆜ	TUBING REPAIR
		CHANGE TUBIN			PLUG AND A		닏	VENT OR FLARE
√	SUBSEQUENT REPORT (Submit Original Form Only)	CHANGE WELL			PLUG BACK		ᆜ	WATER DISPOSAL
	Date of work completion:	CHANGE WELL	STATUS	Ш	PRODUCTIO	N (START/RESUME)		WATER SHUT-OFF
	10/14/2009	COMMINGLE PR	ODUCING FORMATIONS	Ш	RECLAMATI	ON OF WELL SITE	√	OTHER: SPUD
	10/14/2000	CONVERT WELL	. TYPE	Ш	RECOMPLE	TE - DIFFERENT FORMATION		
Cr	DESCRIBE PROPOSED OR CO aig's Roustabout Servic rbally reported 10/15/20	e dry spudded v	well at 0930 10/14	4/200		luding dates, depths, volur	nes, etc.	
NAM	E (PLEASE PRINT) BRIAN WO	00D /	phone: (505) 466	8-812	20 _{TITLI}	CONSULTANT		
SIGN	iature S	Lood			DATE	10/30/2009		

(This space for State use only)

RECEIVED NOV 0 2 2009

STATE OF LITAH

SIAIL OF UIAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

ENTITY ACTION FORM					
Operator:	VA RESOURCES, LLC		Operator Account Number: N 3615		
Address:	P. O. BOX 50790				
	city CASPER				
	state WY	zip 82605	 Phone Number: (307) 743-1407		

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304530031	SKULL VALLEY FEDERAL 21-1		SWSE	21	3S	9W	TOOELE
Action Code	Current Entity Number	New Entity Number	s	Spud Date		Entity Assignment Effective Date	
А	99999	17396	10/14/2009 11/10/				1/10/09
Comments: PRE	VIOUS ENTITY: GEOC	CHEM EXPLORATION	N, LLC N31	60			

API Number	Current Entity New Entity Number Number		PI Number Well Name QQ Sec Twp			Rng County Entity Assignment Effective Date		
Action Code			Spud Date					
Comments:								

Well 3

API Number	Well Name		QQ	QQ Sec Twp			Rng County		
Action Code	Current Entity New Entity Number Number		S	Spud Date		Entity Assignment Effective Date			
Comments:									

ACTION CODES:

- A Establish new entity for new well (single well only)
- **B** Add new well to existing entity (group or unit well)
- Re-assign well from one existing entity to another existing entity
- D Re-assign well from one existing entity to a new entitle CEIVED Signature
- E Other (Explain in 'comments' section)

BRIAN WOOD

Phone: (505) 466-8120

Name (Please Print)

CONSULTANT

10/30/2009

Date

NOV 0 2 2009 Title

Form 3160-5 (September 2001)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to

FORM APPROVED
OM B No 1004-0135
Expires: January 31, 2004

,	Lease Serial No	
	SITTS OTOLEO	

abandoned well. Use Form 3160 - 3 (APD) for such proposals.					n, Allottee or Tribe Name
SUBMIT IN TR	IPLICATE- Other instructions o	n reve	erse side.	7. If Unit o	or CA/Agreement, Name and/or No
i. Type of Well Gas Well Other					ane and No.
2. Name of Operator VA RESOURCES, LLC (OPERATOR #N3615)				SKUL	L VALLEY FEDERAL 21-1
3a Address P.O. BOX 50790 CASPER, W	3b. Phone N		ide area code)	9. API W 43-049	'eli No. 5-30031
4 Location of Well (Footage, Sec.,		1407	900	i0. Field a	nd Pool, or Exploratory Area
738' FSL & 1792' FEL S21-3S-9W SLM					y or Parish, State
12. CHECK A	PPROPRIATE BOX(ES) TO INDICATE	NATU	JRE OF NOTICE, R	<u> </u>	R OTHER DATA
TYPE OF SUBMISSION			YPE OF ACTION		
If the proposal is to deepen din Attach the Bond under which the following completion of the in- testing has been completed. Find determined that the site is read-	Acidize Acidize Alter Casing Casing Repair Change Plans Convert to Injection Plug Back The Work will be performed or provide the Bond Novolved operations. If the operation results in a multiple and a multiple provided operations of the provided operations of the operation results in a multiple performed or provided operations of the operation results in a multiple performed or provided operations of the operation results in a multiple performed or provided operations of the operation results in a multiple performed or provided the Bond Novolved operations. If the operation results in a multiple performed or provided the Bond Novolved operations of the operation results in a multiple performed or provided the Bond Novolved operations of the operation of the performed or provided the Bond Novolved operations of the operation of the performed or provided the Bond Novolved operations of the operation of the performed or provided the Bond Novolved operations of the performed or provided the Bond Novolved operations of the performed or provided the Bond Novolved operations. If the operation results in a multiple performed or provided the Bond Novolved operations of the performed or provided the Bond Novolved operations. If the operation results in a multiple performed or provided the Bond Novolved operations of the performed or provided the Bond Novolved operations of the performed or provided the Bond Novolved operations of the performed or provided the Bond Novolved operations of the performed or provided the Bond Novolved operations of the performed or provided the Bond Novolved operations of the performed or provided the Bond Novolved operations of the Bond Nov	struction Abandor cluding e acc local o. on fill ltiple con all requi	Temporarity At Water Disposal water Disposal stimated starting date of a tions and measured and true with BLM/BIA. Requirempletion or recompletion irrements, including reclams	pandon my proposed v ne vertical dop ed subsequent n a new inter- ation, have be	oths of all portinent markers and zones reports shall be filed within 30 days val, a Form 3160-4 shall be filed once the completed, and the operator has
14. [hereby certify that the fore Name [Printed/Typed] Reed Merschat	egoing is true and correct	Tirle	Consultant	X	
1//2	2	11110			
Signature		Date	1	2/01/2009	
	THIS SPACE FOR FEDERA	LOR	STATE OFFICE	USE	
Approved by			Title		Date
Conditions of approval, if any, are certify that the applicant holds legs which would entitle the applicant t	attached. Approval of this notice does not warra if or equitable title to those rights in the subject to o conduct operations thereon.	ant or ease	Office		

Form 3160-5 (September 2001)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED
OM B No. 1004-0135
Expires: January 31, 2004

5.	Lease Serial No
	UTU-079160

SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.					Mottee or Tribe Name		
SUBMIT IN TRIPLICATE- Other instructions on reverse side.					7 If Unit or CA/Agreement, Name and/or No N/A 8. Well Name and No SKULL VALLEY FEDERAL 21-1 9 API Well No.		
1. Type of Well Gas Well Other 2. Name of Operator VA RESOURCES, LLC (OPERATOR #N3615)							
3a Address		3b. Phone No. (include area code)		43-045-30031			
P.O. BOX 50790 CASPER, WY 4. Location of Well (Footage, Sec., 3)	307-473-1407		10, Field and a WILDCA	Pool, or Exploratory Area AT			
738' FSL & 1792' FEL S21-3S-9W SLM					11, County or Parish, State TOOELE COUNTY, UT		
12. CHECK AI	PPROPRIATE BOX(ES) TO	DINDICATE NATUR	E OF NOTICE, R	EPORT, OR O	OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION						
Notice of Intent Subsequent Report Final Abandonment Notice	Acidize Alter Casing Casing Repair Change Plans Convert to Injection	Deepen Fracture Treat New Construction Plug and Abandon Plug Back	Production (Statement of Statement of Statem	[Water Shut-Off Well Integrity ✓ Other Leaving rig stacked		
Anach the Bond under which the following completion of the inv	ectionally or recomplete horizonta the work will be performed or provolved operations. If the operational half Abandonment Notices shall be	ally, give subsurface location vide the Bond No. on file w In results in a multiple comp	ns and measured and tru vith BLM/BIA. Require eletion or recompletion is	ne vertical depths ed subsequent rep in a new interval,	of all pertinent markers and zones. borts shall be filed within 30 days a Form 3160-4 shall be filed once		

VA Resources will be leaving DHS Rig #11 stacked on location for 3 to 4 weeks until it will be mobilized to Nevada.

14. Thereby certify that the foregoing is true and correct Name (Printed/Typed)					A STATE OF THE STA				
Reed Merschat		Title Consultant							
Signature f-ff-ff-		e 12/08/2009							
THIS SPACE FOR FEDERAL OR STATE OFFICE USE									
Approved by Millel & Lelle		Title	AFM		Date 12/10/2009				
Conditions of approval, if any, are attached. Approval of this notice does not warrar certify that the applicant holds legal or equitable title to those rights in the subject leawhich would entitle the applicant to conduct operations thereon.		Office	Salt	Lake	Field Office				

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Form 3160-5 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB No. 1004-0137 Expires: July 31, 2010

5. Lease Scrial No. UTU-079160

6. If Indian, Allottee or Tribe Name

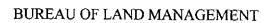
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter an

abandoned well. Use Form 3160-3 (APD) for such proposals. 7. If Unit of CA/Agreement, Name and/or No. SUBMIT IN TRIPLICATE - Other instructions on page 2. 1. Type of Well 8. Well Name and No. SKULL VALLEY FEDERAL 21-1 Oil Well Gas Well Other 2. Name of Operator VA RESOURCES, LLC (OPERATOR #N3615) 9. API Well No. 43-045-30031 3a. Address P.O. BOX 50790 CASPER, WY 82605 3b. Phone No. (include area code) 10. Field and Pool or Exploratory Area 307-473-1407 WILDCAT 4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) 738' FSL & 1792' FEL \$21-3S-9W SLM 11. Country or Parish, State TOOELE COUNTY, UT 12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION Acidize Deepen Production (Start/Resume) Notice of Intent Water Shut-Off Alter Casing Fracture Treat Reclamation Well Integrity Casing Repair New Construction Recomplete Other _ ✓ Subsequent Report. Change Plans Plug and Abandon Temporarily Abandon ☐ Final Abandonment Notice Convert to Injection Plug Back Water Disposal 13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.) We have elected to Temporarily Abandon (TA) pending further acquisition and evaluation of electric logs and other science to determine if sidetracking is a viable option. 14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) Reed Merschat Title Consultant Date 03/03/2010 Signature THIS SPACE FOR FEDERAL OR STATE OFFICE USE Approved by Date 3-11-2010 Form Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false.

fictitious or fraudulent statements or representations as to any matter within its jurisdiction,



United States Department of the Interior





CONDITIONS OF APPROVAL FOR TEMPORARY ABANDONMENT

Operator:

VA Resources, LLC

Well:

Skull Valley Fed #21-1 SW SE Sec. 21, T3S, R9W

Tooele County, Utah

UTU-79160

This office received your Sundry Notice dated March 3, 2010 proposing TA status until further well evaluation can be completed.

Be advised this approval is not a permanent status change.

- 1. The regulation at 43 CFR § 3162.3-4 specifies: "When justified by the operator, the AO may authorize a delay, no one of which may exceed an **additional 12 months**."
- 2. Therefore your TA approval WILL EXPIRE March 1, 2011.
- 3. Prior to March 1, 2011, VA Resources, LLC. shall:
 - Submit a proposal to redrill this well and establish production; or
 - Submit a proposal to permanently plug and abandon this well.

Form 3160-5 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB No. 1004-0137 Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS

So not use this form for proposals to drill or to re-enter an

5. Lease Serial No. UTU-079160 6. If Indian, Allottee or Tribe Name

	Use Form 3160-3 (A		N/A				
SUBMI	T IN TRIPLICATE – Other	instructions on page 2.	· 1	7. If Unit of CA/Agreement, Name and/or No.			
1. Type of Well			N/A				
☑ Oil Well ☐ Gas V	Vell Other		SKU	ell Name and No. JLL VALLEY FEDE	RAL 21-1		
2. Name of Operator VA RESOURCES, LLC (OPERATO	PR #N3615)		9. A 43-0	Pi Well No. 045-30031			
3a. Address P.O. BOX 50790 CASPER, WY 82605	· , _ ,	3b. Phone No. (include		Field and Pool or Expl	loratory Area		
		307-473-1407	WIL	DÇAT			
4. Location of Well (Footage, Sec., T., 738' FSL & 1792' FEL \$21-38-9W SLM	R.,M., or Survey Description,)	I	Country or Parish, Sta DELE COUNTY, UT			
12. CHEC	CK THE APPROPRIATE BO	X(ES) TO INDICATE N	ATURE OF NOTICE, R	EPORT OR OTHER	DATA		
TYPE OF SUBMISSION			TYPE OF ACTION				
Notice of Intent	Acidize	Doepen	Production	(Start/Resume)	Water Shut-Off		
	Alter Casing	Fracture Treat	Reclamation	on l	Well Integrity		
Subsequent Report	Casing Repair	New Construct	ion Recomplet	e	Other SRA		
	Change Plans	Plug and Aband	ion 🔲 Temporari	ly Abandon			
Final Abandonment Notice	Convert to Injection	Plug Back	Water Dis	posal			
Subsequent Report of Abandonmer determine if sidetracking is a viable			ding further acquisition	and evaluation of el	lectric logs and other science to		
14. I hereby certify that the foregoing is	true and correct.			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Name (Printed/Typed) Reed Merschat		Consultant					
Signature		Date 0	3/03/2010				
	THIS SPACE	FOR FEDERAL C	R STATE OFFICE	EUSE			
Approved by Medded Conditions of approval, if any, are attache that the applicant holds legal or equitable entitle the applicant to conduct operations	title to those rights in the subje- thereon.	s not warrant or certify ct lease which would Of	tle A FOY		. 03-11-2010		
Title 18 U.S.C. Section 1001 and Title 43	O.S.C. Section 1212, make it a	cume for any person know	wingly and willfully to mai	te to any department or	ragency of the United States any false		

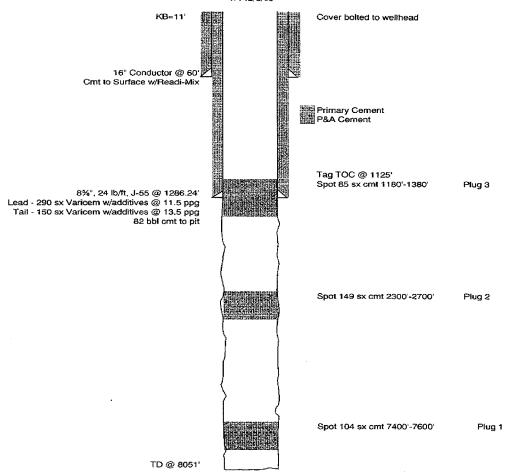
fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

VA RESOURCES

SKULL VALLEY FEDERAL 21-1

738' FSL, 1792' FEL, SWSE, Sec 21, T3S, R9W Tooele County, Utah API# 043-045-30031

TA 12/5/09



Plug 1: 104 sx Class *G" w/no additives @ 15.8 ppg, Yield = 1.15 ft"/ft

Plug 2: 149 sx Class "G" w/no additives @ 15.8 ppg, Yield = 1.15 ft3/ft

Plug 3: 85 sx Class "G" w/2% $CaCl_2 @ 15.8 ppg$, Yield = 1.15 ft3/ft

SRC 1/4/10

SUBSEQUENT REPORT OF WELL ABANDONMENT CONDITIONS OF APPROVAL

Operator:

VA Resources, LLC

Well:

Skull Valley Fed. # 21-1

SW1/4 SE1/4 Sec. 21, T. 36 S., R.1 E. SLB&M

Tooele County, Utah

UTU-79160

- 1. Approval of this Sundry Notice does not relieve VA Resources, LLC. of the responsibility to complete plugging of the referenced wellbore and rehabilitate the surface in accordance with the approved Application for Permit to Drill and the BLM. This is not approval of final abandonment.
- 2. Surface restoration shall be in conformance with the Surface Use Plan of Operation.
- 3. You or your authorized representative should inspect the abandoned location prior to notification to this office by Form 3160-5, Final Abandonment Notice (FAN), that the location is ready for final inspection, and note especially that:
 - A. The regulation dry-hole marker bears the correct information (unless waived by the BLM Salt Lake Field Office).
 - B. The rathole and mousehole are filled, not just bridged, and pits are filled and leveled.
 - C. All material and junk are gone. This includes anchors protruding above ground.
 - D. Reseeding and other required rehabilitation work has been completed.

Form 3160-5 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

FORM APPRO	VED
OMB No. 1004	0137
Expires: July 31	2010

SUNDRY NOTICES AND REPORTS ON WELLS

5. Lease Serial No. UTU-079160

Do not use this t abandoned well.	orm for proposals to drill or to Use Form 3160-3 (APD) for su	N/A					
SUBMI 1. Type of Well	T IN TRIPLICATE – Other instructions o	7. If Unit of CA/Agreem	7. If Unit of CA/Agreement, Name and/or No. N/A				
Oil Well Gas W	Vell Other	8. Well Name and No. SKULL VALLEY FEDI	8. Well Name and No.				
2. Name of Operator VA RESOURCES, LLC (OPERATO	PR #N3615)		9. API Well No. 43-045-30031	LIVAL Z I · I			
3a. Address P.O. BOX 50790 CASPER, WY 82605		. (include area code)	10. Field and Pool or Ex	ploratory Area			
	307-472-288	5	WILDCAT				
4. Location of Well (Footuge, Sec., T., 738 FSL & 1792 FEL S21-3S-9W SLM	R.,M., or Survey Description)		11. Country or Parish, St TOOELE COUNTY, U				
12. CHEC	CK THE APPROPRIATE BOX(ES) TO IND	ICATE NATURE OF NOTI	CE, REPORT OR OTHER	RDATA			
TYPE OF SUBMISSION		TYPE OF AC	TION				
Notice of Intent Subsequent Report		ture Treat Rec	duction (Start/Resume) clamation	Water Shut-Off Well Integrity Other			
	Change Plans Plug		oporarily Abandon				
Final Abandonment Notice	Convert to lojection Plug Plug Peration: Clearly state all pertinent details, in		ter Disposal				
testing has been completed. Final determined that the site is ready for the pit will be back-filled, well site a cattle guard will be removed and its	and access road will be ripped and conto area back-filled. Disturbed areas will be vill be harrowed and left rough after seed	er all requirements, including ured to match surrounding ripped before seeding. Se	g reclamation, have been o	ompleted and the operator has			
Reed Merschat	nde and correct. Name (Prince)	Title Consultant					
Signature		Date 10/14/2010					
	THIS SPACE FOR FEDE	RAL OR STATE OF	FICE USE				
Approved by							
	 Approval of this notice does not warrant or citle to those rights in the subject lease which we thereon. 		Da	te			
Fille 18 U.S.C. Section 1001 and Title 43 fictitious or fraudulent statements or repre	U.S.C. Section 1212, make it a crime for any posentations as to any matter within its jurisdiction	erson knowingly and willfully n.	to make to any department o	r agency of the United States any false.			

AMENDED REPORT FORM 8 STATE OF UTAH (highlight changes) DEPARTMENT OF NATURAL RESOURCES 5. LEASE DESIGNATION AND SERIAL NUMBER: DIVISION OF OIL, GAS AND MINING UTU-079160 6. IF INDIAN, ALLOTTEE OR TRIBE NAME WELL COMPLETION OR RECOMPLETION REPORT AND LOG 7. UNIT or CA AGREEMENT NAME 1a, TYPE OF WELL: OL Z DRY OTHER 8. WELL NAME and NUMBER: b. TYPE OF WORK: DEEP-Skull Valley Federal 21-1 HORIZ. DIFF. RESVR. WELL Z RE-ENTRY OTHER 9. API NUMBER: 2. NAME OF OPERATOR: 4304530031 VA Resources, Inc. 10 FIELD AND POOL, OR WILDCAT PHONE NUMBER: 3. ADDRESS OF OPERATOR: Wildcat STATE WY ZIP 82605 (307) 472-0077 P.O. Box 50790 сту Casper 11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: 4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 738 FSL 1792 FEL SWNE 21 38 9W AT TOP PRODUCING INTERVAL REPORTED BELOW: NA 13. STATE 12. COUNTY UTAH AT TOTAL DEPTH: Tooele 17. ELEVATIONS (DF, RKB, RT, GL): 14. DATE SPUDDED: 15. DATE T.D. REACHED ABANDONED 🗸 READY TO PRODUCE 4531 KB, 4506 GL 11/30/2009 10/14/2009 4/5/2011 21. DEPTH BRIDGE PLUG SET: 20. IF MULTIPLE COMPLETIONS, HOW MANY? MD 19. PLUG BACK T.D.: MD () 18. TOTAL DEPTH: 8.051 None DVT TVD 8.040 TVD () 22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) 23. NO 🗸 YES 🗌 WAS WELL CORED? (Submit analysis) NO 🗸 YES (Submit report) WAS DST RUN? YES 🗸 (Submit copy) DIRECTIONAL SURVEY? NO 24. CASING AND LINER RECORD (Report all strings set in well) SLURRY STAGE CEMENTER DEPTH **CEMENT TYPE &** AMOUNT PULLED CEMENT TOP ** BOTTOM (MD) SIZE/GRADE WEIGHT (#/ft.) TOP (MD) HOLE SIZE NO. OF SACKS VOLUME (BBL) 25 0 60 16" LP 0 20" 0 290 24lb 0 1,289 **J55** 12.25" 8 5/8 25. TUBING RECORD PACKER SET (MD) SIZE DEPTH SET (MD) PACKER SET (MD) SIZE DEPTH SET (MD) DEPTH SET (MD) PACKER SET (MD) SIZE 27. PERFORATION RECORD 26. PRODUCING INTERVALS PERFORATION STATUS SIZE NO. HOLES BOTTOM (TVD) INTERVAL (Top/Bot - MD) FORMATION NAME TOP (MD) BOTTOM (MD) TOP (TVD) Squeezed Open (A) Open Squeezed (B) Squeezed Open (C) Squeezed Open (D) 28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC. AMOUNT AND TYPE OF MATERIAL DEPTH INTERVAL 30. WELL STATUS: 29. ENCLOSED ATTACHMENTS: ✓ DIRECTIONAL SURVEY DST REPORT GEOLOGIC REPORT ELECTRICAL/MECHANICAL LOGS P&A OTHER: SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION CORE ANALYSIS RECEIVED

(CONTINUED ON BACK)

JAN 0 3 2012

31. INITIAL PRO	ODUCTION			INTI	ERVAL A (As sho	wn in item #26)						
DATE FIRST PR	RODUCED:	TEST DATE:		HOURS TESTED):	TEST PRODUCTION RATES: →	OIL – BBL:	GAS - MCF:	WATER -	- BBL:	PROD. METHOD:	
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS - MCF:	WATER -	- BBL:	INTERVAL STATUS:	
	(NTERVAL B (As shown in Item #26)											
DATE FIRST PR	RODUCED:	TEST DATE:		HOURS TESTED):	TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER -	- BBL:	PROD. METHOD:	
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS	. API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER -	- BBL.:	INTERVAL STATUS:	
				INTI	ERVAL C (As sho	wn in item #26)						
DATE FIRST PR	RODUCED:	TEST DATE:		HOURS TESTED);	TEST PRODUCTION RATES: →	OIL – BBL:	GAS - MCF:	WATER -	- BBL:	PROD. METHOD:	
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS	. API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER -	- BBL:	INTERVAL STATUS:	
		· · · · · · · · · · · · · · · · · · ·		INTE	ERVAL D (As sho	wn in item #26)						
DATE FIRST PR	RODUCED:	TEST DATE:		HOURS TESTED):	TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER -	- BBL:	PROD. METHOD:	
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS	. API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS - MCF:	WATER -	- BBL:	INTERVAL STATUS:	
32. DISPOSITIO	ON OF GAS (Sold,	Used for Fuel	Vented, Etc.)		I	•					<u></u>	
33. SUMMARY	OF POROUS ZON	ES (Include A	quifers):	· -	_	3	4. FORMATION (Log) MARKERS:	· .			
Show all imports	ant zones of porosit	v and contents	thereof: Cored interv	als and all drill-stem	tests, including de	epth interval						
tested, cushion (used, time tool ope	n, flowing and s	hut-in pressures and	recoveries.								
Formation	on	Top (MD)	Bottom (MD)	Descript	tions, Contents, etc).		Name		(1	Top (Measured Depth)	
]										
						ľ						
		İ										
35. ADDITIONA	L REMARKS (Incl	ude plugging	procedure)	 			<u> </u>					
Spot 104	4 sx cmt 7	400"-76	00". Spot	104 sx cm	t 2300"-2	700". Spot 8	35 sx cmt	1180"-13	60". S	pot 2	25 sx cmt	
						per BLM red						
36. I hereby ce	rtify that the foreg	oing and attac	hed information is	complete and corre	ect as determined	from all available reco	ords.		4.000	-		
NAME (PLEAS	NAME (PLEASE PRINT) Jeffrey Bennett TITLE Consultant											
SIGNATURE	12/15/2011											
	<i>- 1 1/1/1</i>	7						· · · · · · · · · · · · · · · · · · ·				
	nust be submit				roontoring a	previously plugged	d and ahando	ned well				
drilling		terals from	weii an existing well ducing formatior	bore •	significantly of	deepening an exis carbon explorator	ting well bore	below the prev	ious bott	om-ho	le depth phic tests	
	. •		-		0,	rom two or more f		ao oo o oampi		~g. ~		
								ement bond log	g (CBL), te	empera	ature survey (TS)).	
	Utah Division			Phone	e: 801-538-53	340						
	1594 West No Box 145801 Salt Lake City			Fax:	801-359-39	940						

STATE OF UTAH

	5. LEASE DES	SIGNATION AND SERIAL NUMBER:			
SUNDRY	6. IF INDIAN,	ALLOTTEE OR TRIBE NAME:			
Do not use this form for proposals to drill n drill horizontal le	7. UNIT or CA	AGREEMENT NAME:			
1. TYPE OF WELL OIL WELL				Skull Va	E and NUMBER: lley Federal 21-1
2. NAME OF OPERATOR:				9. API NUMBE	
VA Resources, Inc. 3. ADDRESS OF OPERATOR:		- LE	PHONE NUMBER:		POOL, OR WILDCAT:
	Casper STATE WY ZIP	, 82605	(307) 472-0077	Wildcat	
4. LOCATION OF WELL					
FOOTAGES AT SURFACE: 738 FS	SL 1792 FEL			COUNTY: T	ooele
QTR/QTR, SECTION, TOWNSHIP, RAN		STATE:	UTAH		
11. CHECK APPI	ROPRIATE BOXES TO INDICAT	TE NATURE C	F NOTICE, REPOR	RT, OR O	THER DATA
TYPE OF SUBMISSION			PE OF ACTION		
NOTICE OF INTENT	ACIDIZE	DEEPEN		REPE	RFORATE CURRENT FORMATION
NOTICE OF INTENT (Submit in Duplicate)	ALTER CASING	FRACTURE T	REAT	SIDET	FRACK TO REPAIR WELL
Approximate date work will start:	CASING REPAIR	NEW CONSTI	RUCTION	TEMP	ORARILY ABANDON
	CHANGE TO PREVIOUS PLANS	OPERATOR O	CHANGE	TUBIN	IG REPAIR
**************************************	CHANGE TUBING	✓ PLUG AND AE	BANDON	VENT	OR FLARE
SUBSEQUENT REPORT (Submit Original Form Only)	CHANGE WELL NAME	PLUG BACK		WATE	ER DISPOSAL
Date of work completion:	CHANGE WELL STATUS	PRODUCTION	(START/RESUME)	WATE	ER SHUT-OFF
	COMMINGLE PRODUCING FORMATIONS	RECLAMATIC	N OF WELL SITE	OTHE	R:
4/5/2011	CONVERT WELL TYPE	RECOMPLET	E - DIFFERENT FORMATION		
Spot 104 sx cmt 7400"-76	OMPLETED OPERATIONS. Clearly show all page 500". Spot 104 sx cmt 2300"-2700 emented per BLM requirements.				cmt 0"-60". See attached
**					
		4.			
					١.
NAME (DI EASE DRINT) Jeffrey Be	ennett		Consultant		

(This space for State use only)

RECEIVED
JAN 0 3 2012

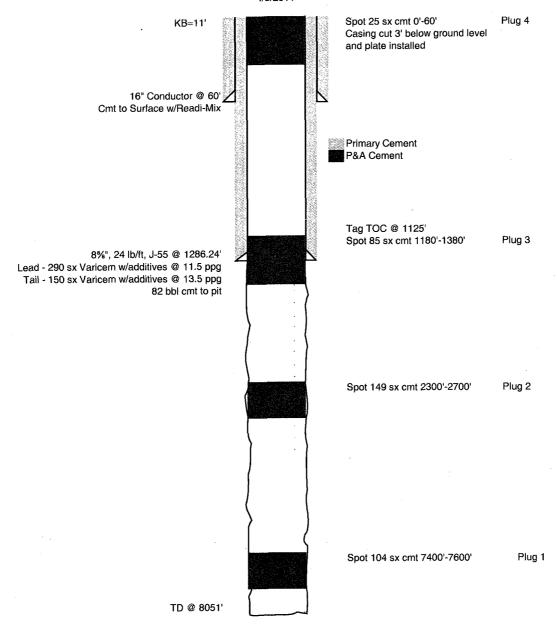
DATE 12/15/2011

VA RESOURCES

SKULL VALLEY FEDERAL 21-1

738' FSL, 1792' FEL, SWSE, Sec 21, T3S, R9W Tooele County, Utah API# 043-045-30031

FINAL P&A 4/5/2011



. Plug 1: 104 sx Class "G" w/no additives @ 15.8 ppg, Yield = 1.15 ft³/ft

Plug 2: 149 sx Class "G" w/no additives @ 15.8 ppg, Yield = 1.15 ft3/ft

Plug 3: 85 sx Class "G" w/2% CaCl₂ @ 15.8 ppg, Yield = 1.15 ft3/ft

Plug 4: 25 sx Type III w/no additives @ 15.8 ppg, Yield = 1.15 ft3/ft



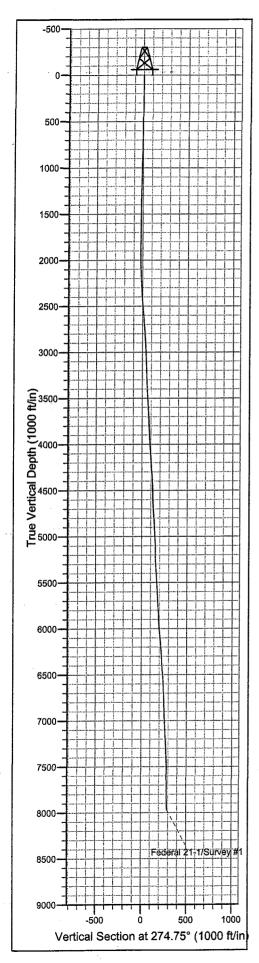
V. A. Resources

Skull Valley Federal 21-1 Federal 21-1 Wellbore #1

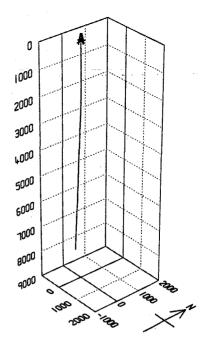
Survey: Survey #1

Standard Survey Report

08 December, 2009







V. A. Resources

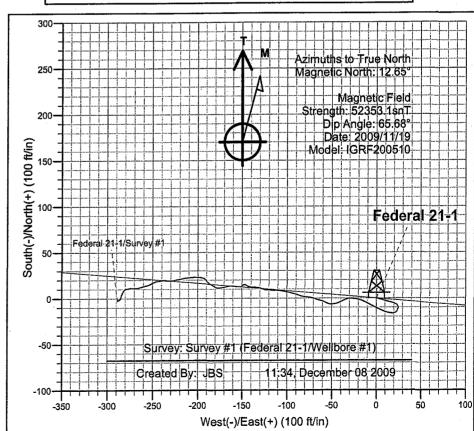
Federal 21-1 Skull Valley

Geodetic System: US State Plane 1983 Zone: Utah Central Zone WELL @ 0.0ft (Original Well Elev)

Ground Level: 0.0

Latitude: 40° 32' 15.780 N Longitude: 112° 51' 51.900 W

Magnetic North is 12.65° East of True North (Magnetic Declination)





V. A. Resources Company: Skull Valley Project: Federal 21-1 Site: Federal 21-1 Well Wellbore #1 Wellbore: Wellbore #1 Design:

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference Survey Calculation Method:

Well Federal 21-1 WELL @ 0.0ft (Original Well Elev) WELL @ 0.0ft (Original Well Elev)

Minimum Curvature

EDM 2003.16 Single User Db

Project

Skull Valley

Map System: Geo Datum:

US State Plane 1983 North American Datum 1983 System Datum:

Database:

Mean Sea Level

Map Zone:

Utah Central Zone

Site

Federal 21-1

Site Position: From:

Lat/Long

Northing: Easting:

7,367,494.43ft 1,261,197.43ft Latitude: Longitude:

40° 32' 15.780 N 112° 51' 51.900 W

Position Uncertainty:

Slot Radius:

Grid Convergence:

0.0 ft

-0.87°

Well **Well Position** Federal 21-1

+N/-S +E/-W

Wellbore #1

Model Name

0.0 ft 0.0 ft Northing: Easting:

2009/11/19

7,367,494.43 ft 1,261,197.43 ft

12.65

Latitude: Longitude:

40° 32' 15.780 N 112° 51' 51.900 W

52,353

Position Uncertainty

0.0 ft

Wellhead Elevation:

Ground Level:

65.68

0.0 ft

IGRF200510

Sample Date

Declination (°)

Dip Angle

Field Strength

(nT)

Wellbore #1

Design **Audit Notes:**

Wellbore

Magnetics

1.0 Version:

ACTUAL

(ft)

0.0

Tie On Depth:

0.0

Vertical Section:

Phase: Depth From (TVD)

(ft)

0.0

+N/-S

+E/-W (ft) 0.0

Direction (°)

274.75

Survey Program

Date 2009/12/08

From (ft)

To (ft)

Survey (Wellbore)

Tool Name

Description

1,368.0

7,982.0 Survey #1 (Wellbore #1)

MWD

MWD

Survey Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
1,368.0	1.70	104.90	1,367.8	-5 .2	19.6	-20.0	0.12	0.12	0.00
1,948.0	1.60	213.20	1,947.7	-14.2	23.5	-24.6	0.46	-0.02	18.67
2,565.0	6.10	299.20	2,563.4	-5.4	-9.9	9.4	1.00	0.73	13.94
2,619.0	5.60	291.80	2,617.1	-3.0	-14.8	14.5	1.67	-0.93	-13.70
2.683.0	4.30	281.80	2.680.9	-1.4	-20.1	19.9	2.43	-2.03	-15.62
2,746.0	4.70	277.70	2.743.7	-0.6	-24.9	24.8	0.81	0.63	-6.51
2,809.0	3.80	268.60	2,806.5	-0.3	-29.6	29.5	1.78	-1.43	-14.44
2,871.0	3.60	250.10	2,868.4	-1.0	-33.5	33.3	1.94	-0.32	-29.84
2,912.0	3.50	244.70	2,909.3	-1.9	-35.8	35.5	0.85	-0.24	-13.17
2.976.0	2.90	244.00	2,973.2	-3.5	-39.0	38.6	0.94	-0.94	-1.09
3.039.0	3.20	252.10	3,036.1	-4.7	-42.1	41.6	0.83	0.48	12.86
3,102.0	2.40	251.00	3,099.0	-5.7	-45.1	44.4	1.27	-1.27	-1.75



Company: Project: Site: Well: Wellbore:

Design:

V. A. Resources Skull Valley Federal 21-1 Federal 21-1 Wellbore #1 Wellbore #1

Local Co-ordinate Reference; TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database: Well Federal 21-1
WELL @ 0.0ft (Original Well Elev)
WELL @ 0.0ft (Original Well Elev)
True
Minimum Curvature
EDM 2003.16 Single User Db

Survey									
Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth (ft)	Inclination (°)	Azimuth (°)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Section (ft)	Rate (°/100ft)	Rate (°/100ft)	Rate (°/100ft)
3,165.0	2.10	264.20	3,162.0	-6.2	-47.5	46.8	0.95	-0.48	20.95
3,228.0	1.90	263.10	3,225.0	-6.5	-49.6	48.9	0.32	-0.32	-1.75
3,291.0 3,354.0	2.60 3.20	278.10 295.10	3,287.9 3,350.8	-6.4 -5.5	-52.1 -55.1	51.4 54.5	1.44 1.65	1.11 0.95	23.81 26.98
3,417.0	2.30	301.80	3,413.8	-4.1	-57.8	57.2	1.51 3.75	-1.43 3.44	10.63 -26.87
3,481.0 3,544.0	4.50 4.00	284.60 286.90	3,477.6 3,540.5	-2.7 -1.5	-61.3 -65.8	60.9 65.4	0.84	-0.79	3.65
3,576.0	3.00	294.30	3,572.4	-0.8	-67.6	67.3	3.42	-3.12 0.33	23.12 -12.00
3,606.0	3.10 3.20	290.70 283.70	3,602.4 3,632.3	-0.2 0.3	-69.1 -70.7	68.8 70.4	0.72 1.32	0.33	-23.33
3,636.0 3,667.0	3.30	280.70	3,663.3	0.7	-72.4	72.2	0.64	0.32	-9.68 0.60
3,699.0	3.60	277.60	3,695.2	1.0	-74.3	74.1	1.10	0.94	-9.69 2.50
3,731.0	2.30 1.90	278.40 270.90	3,727.2 3,758.1	1.2 1.3	-75.9 -77.0	75.7 76.9	4.06 1.56	-4.06 -1.29	-24.19
3,762.0 3,794.0	2.20	280.50	3,790.1	1.4	-78.2	78.0	1.42	0.94	30.00
3,825.0	2.60	274.60	3,821.1	1.6	-79.5	79.3 80.8	1.51 1.51	1.29 1.29	-19.03 16.13
3,856.0	3.00	279.60	3,852.1	1.8 2.0	-81.0 -82.6	82.5	0.97	0.97	0.32
3,887.0 3,919.0	3.30 3.00	279.70 291.80	3,883.0 3,915.0	2.0 2.5	-84.3	84.2	2.27	-0.94	37.81
3,951.0	3.30	288.80	3,946.9	3.1	-86.0	85.9	1.07	0.94	-9.37 6.43
3,982.0	3.90 4.20	286.90 285.70	3,977.9 4,009.8	3.7 4.3	-87.8 -90.0	87.8 90.0	1.97 0.97	1.94 0.94	-6.13 -3.75
4,014.0 4,045.0	4.20 4.10	285.10	4,009.8	4.9	-92.2	92.3	0.35	-0.32	-1.94
4,045.0	3.50	286.70	4,072.6	5.5	-94.2	94.3	1.90	-1.87	5.00
4,108.0	3.40	287.60	4,103.6	6.1	-96.0	96.2 98.0	0.37 1.46	-0.32 -0.31	2.90 -24.37
4,140.0 4,171.0	3.30 3.30	279.80 279.30	4,135.5 4,166.5	6.5 6.8	-97.8 -99.6	99.8	0.09	0.00	-1.61
4,202.0	3.30	280.40	4,197.4	7.1	-101.3	101.6	0.20	0.00	3.55
4,233.0	3.80	283.00	4,228.4	7.5	-103.2 -105.4	103.5 105.7	1.69 1.59	1.61 1.56	8.39 -4.37
4,265.0 4,296.0	4.30 4.50	281.60 279.00	4,260.3 4,291.2	8.0 8.4	-105.4	103.7	0.91	0.65	-8.39
4,328.0	4.30	273.20	4,323.1	8.7	-110.2	110.5	1.52	-0.62	-18.12
4,360.0	3.80	268.10	4,355.0	8.7	-112.4	112.8	1.92	-1.56 -0.67	-15.94 0.33
4,390.0	3.60	268.20 274.40	4,384.9 4,416.9	8.6 8.7	-114.4 -116.1	114.7 116.4	0.67 3.00	-2.81	19.37
4,422.0 4,453.0	2.70 1.80	274.40	4,447.9	8.8	-117.3	117.7	2.93	-2.90	10.65
4,485.0	1.50	277.70	4,479.9	8.9	-118.2	118.6	0.94	-0.94	0.00
4,517.0	1.50	282.50	4,511.8	9.1	-119.1	119.4	0.39 1.29	0.00 0.00	15.00 -49.35
4,548.0	1.50 2.00	267.20 266.10	4,542.8 4,574.8	9.1 9.1	-119.9 -120.8	120.2 121.2	1.29	1.56	-3.44
4,580.0 4,610.0	2.70 2.70	267.70	4,604.8	9.0	-122.1	122.4	2.34	2.33	5.33
4,642.0	2.20	277.00	4,636.8	9.1	-123.4	123.8	1.99	-1.56	29.06
4,674.0	2.60	288.50	4,668.7	9.4 9.9	-124.7 -126.4	125.1 126.8	1.95 3.88	1.25 3.87	35.94 3.87
4,705.0 4,737.0	3.80 4.60	289.70 290.40	4,699.7 4,731.6	9.9 10.7	-120. 4 -128.6	129.0	2.51	2.50	2.19
4,768.0	4.00	283.50	4,762.5	11.4	-130.8	131.3	2.55	-1.94 0.00	-22.26 -24.19
4,799.0	4.00	276.00	4,793.4	11.8	-132.9	133.4	1.69 0.96	0.00	-24.19 -13.75
4,831.0 4,863.0	4.00 2.80	271.60 266.50	4,825.4 4,857.3	11.9 11.9	-135.1 -137.0	135.7 137.6	0.96 3.86	-3.75	-15.75 -15.94
4,863.0	2.40	271.40	4,888.3	11.9	-138.4	139.0	1.48	-1.29	15.81
4,926.0	3.00	278.40	4,920.2	12.0 12.4	-139.9 -141.6	140.5 142.1	2.14 2.16	1.87 0.97	21.87 35.16
4,957.0	3.30	289.30	4,951.2 4,983.1	13.2	-141.0	143.9	1.71	0.00	29.69
4,989.0 5,020.0	3.30 3.30	298.80 302.30	5,014.1	14.1	-144.8	145.5	0.65	0.00	11.29



Company: Project: Site: Well:

V. A. Resources Skull Valley Federal 21-1 Federal 21-1 Wellbore #1

Local Co-ordinate Reference: TVD Reference:

MD Reference: North Reference:

Well Federal 21-1

WELL @ 0.0ft (Original Well Elev) WELL @ 0.0ft (Original Well Elev)

True

Wellbore: We	derai 21-1 ellbore #1 ellbore #1			Database	alculation N	lethod:	Minimum Curva EDM 2003.16 S	ingle User Db	
Survey Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,052.0	2.90	282.30	5,046.0	14.8	-146.4 -147.9	147.1 148.6	3.58 4.24	-1.25 0.00	-62.50 -84.52
5,083.0 5,115.0	2.90 2.60	256.10 233.10	5,077.0 5,109.0	14.7 14.1	-147.9	149.9	3.55	-0.94	-71.87
5,146.0	1.10	192.50	5,140.0	13.4	-149.9	150.5	6.14	-4.84	-130.97
5,177.0	0.60	172.60	5,170.9	12.9	-149.9	150.5	1.85	-1.61	-64.19 178.06
5,208.0	0.60	227.80	5,201.9	12.7	-150.0	150.6	1.79	0.00 2.50	137.50
5,240.0	1.40	271.80	5,233.9	12.6	-150.5 -151.7	151.1 152.2	3.29 4.09	4.06	13.12
5,272.0	2.70	276.00	5,265.9	12.7					-18.71
5,303.0	3.20	270.20	5,296.9	12.7	-153.3	153.8	1.88 0.89	1.61 0.65	10.65
5,334.0	3.40	273.50	5,327.8	12.8	-155.1	155.6 157.7	2.95	2.81	13.12
5,366.0	4.30	277.70	5,359.8	13.0 13.3	-157.2 -159.7	157.7 160.2	1.13	0.94	-8.12
5,398.0	4.60	275.10 271.60	5,391.7 5,422.6	13.4	-162.1	162.6	1.10	-0.65	-11.29
5,429.0	4.40		•				1.73	0.00	-22.50
5,461.0	4.40	264.40	5,454.5	13.3 12.9	-164.5 -166.9	165.1 167.4	2.62	-0.62	-34.06
5,493.0	4.20	253.50	5,486.4 5,517.3	12.9	-169.0	169.5	1.53	-0.97	16.77
5,524.0	3.90 3.40	258.70 260.30	5,549.2	12.0	-171.0	171.4	1.59	-1.56	5.00
5,556.0 5,587.0	3.70	261.20	5,580.2	11.7	-172.9	173.3	0.98	0.97	2.90
,		260.40	5,612.1	11.3	-175.0	175.4	0.95	0.94	-2.50
5,619.0 5,650.0	4.00 3.30	273.00	5,643.0	11.2	-177.0	177.3	3.42	-2.26	40.65
5,682.0	2.90	290.90	5,675.0	11.5	-178.7	179.0	3.26	-1.25	55.94
5,713.0	3.10	303.40	5,706.0	12.3	-180.1	180.5	2.20	0.65	40.32
5,744.0	3.90	306.40	5,736.9	13.4	-181.6	182.1	2.65	2.58	9.68
5,775.0	4.70	302.20	5,767.8	14.7	-183.6	184.1	2.77	2.58	-13.55
5,807.0	4.20	302.30	5,799.7	16.0	-185.7	186.3	1.56	-1.56	0.31
5,839.0	3.30	303.20	5,831.6	17.1	-187.4	188.2	2.82	-2.81	2.81
5,871.0	2.70	310.20	5,863.6	18.1	-188.8	189.6	2.19 1.29	-1.87 0.97	21.87 17.10
5,902.0	3.00	315.50	5,894.6	19.2	-189.9	190.8			
5,934.0	3.70	313.80	5,926.5	20.5	-191.2	192.3	2.21	2.19 0.97	-5.31 -56.13
5,965.0	4.00	296.40	5,957.4	21.7	-192.9	194.0 196.4	3.87 4.16	2.19	-36.13 -46.87
5,997.0	4.70	281.40	5,989.3	22.4 22.8	-195.2 -197.9	199.4	2.03	1.25	-18.75
6,029.0	5.10	275.40 273.70	6,021.2 6,053.1	23.0	-200.7	202.0	0.47	0.00	-5.31
6,061.0	5.10		•		-203.5	204.8	1.26	0.65	-11.94
6,092.0	5.30	270.00	6,084.0 6.115.8	23.1 23.0	-203.5 -206.5	204.6	1.39	0.00	-15.00
6,124.0	5.30 5.00	265.20 266.00	6,115.8 6,145.7	23.0 22.8	-200.5	210.4	1.03	-1.00	2.67
6,154.0 6,186.0	5.20	261.90	6,177.6	22.5	-212.0	213.1	1.30	0.62	-12.81
6,218.0	5.10	259.60	6,209.5	22.0	-214.8	215.9	0.72	-0.31	· - 7.19
6,250.0	5.10	257.70	6,241.3	21.5	-217.6	218.7	0.53	0.00	-5.94
6,250.0 6,281.0	4.70	259.40	6,272.2	20.9	-220.2	221.2	1.37	-1.29	5.48
6,313.0	3.90	259.80	6,304.1	20.5	-222.6	223.5	2.50	-2.50	1.25
6,345.0	3.10	254.00	6,336.1	20.1	-224.5	225.4	2.73	-2.50 -0.65	-18.12 -11.29
6,376.0	2.90	250.50	6,367.0	19.6	-226.0	226.9	0.87		
6,408.0	3.10	265.80	6,399.0	19.2	-227.7	228.5	2.57	0.62	47.81
6,453.0	4.60	271.60	6,443.9	19.2	-230.7	231.5	3.44	3.33 2.78	12.89 3.89
6,471.0	5.10	272.30	6,461.8	19.3	-232.2 -235.0	233.0 235.8	2.80 0.47	0.32	3.87
6,502.0	5.20	273.50 269.60	6,492.7 6,524.6	19.4 19.5	-235.0 -237.7	238.5	1.88	-1.56	-12.19
6,534.0	4.70					240.8	4.29	-4.06	-19.69
6,566.0	3.40	263.30	6,556.5	19.4	-240.0 -241.6	240.8 242.4	4.29 2.34	-4.06 -2.26	-11.29
6,597.0	2.70	259.80 262.80	6,587.4 6,618.4	19.1 18.9	-241.0	242.4	0.55	-0.32	9.68
6,628.0 6,659.0	2.60 2.50	262.30	6,649.4	18.7	-244.4	245.1	0.33	-0.32	-1.61
6,691.0	2.40	259.10	6,681.4	18.5	-245.8	246.4	0.53	-0.31	-10.00
•		249.80	6,713.3	18.2	-247.0	247.7	1.23	-0.31	-29.06
6,723.0	2.30	249.00	0,713.3	10.2	477.0				



Company: Project: Site: Well:

Wellbore:

Design:

V. A. Resources Skull Valley Federal 21-1 Federal 21-1 Wellbore #1 Wellbore #1 Local Co-ordinate Reference: TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Database: Well Federal 21-1

WELL @ 0.0ft (Original Well Elev) WELL @ 0.0ft (Original Well Elev)

True

Minimum Curvature

EDM 2003.16 Single User Db

Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)
6,754.0	2.30	243.60	6,744.3	17.7	-248.2	248.8	0.80	0.00	-20.00
6,785.0	2.70	247.00	6,775.3	17.1	-249.4	249.9	1.38	1.29	10.97
6,817.0	2.60	248.50	6,807.2	16.5	-250.8	251.3	0.38	-0.31	4.69
6,849.0	1.80	234.10	6,839.2	16.0	-251.8	252.3	3.02	-2.50	-45.00
6.880.0	1.80	236.90	6,870.2	15.4	-252.6	253.0	0.28	0.00	9.03
6,911.0	2.00	246.40	6,901.2	15.0	-253.5	253.9	1.20	0.65	30.65
6,943.0	2.50	253.60	6,933.2	14.5	-254.7	255.1	1.79	1.56	22.50
6,975.0	2.70	256.80	6,965.1	14.2	-256.1	256.4	0.77	0.62	10.00
7,006.0	2.80	255.40	6,996.1	13.8	-257.6	257.8	0.39	0.32	-4.52
7.037.0	3.10	254.70	7,027.1	13.4	-259.1	259.3	0.97	0.97	-2.26
	3.10	254.70 253.80	7,058.0	12.9	-260.7	260.9	0.16	0.00	-2.90
7,068.0	3.10	253.80 255.10	7,036.0	12.5	-262.3	262.5	0.66	-0.62	4.06
7,100.0	2.90 2.70	255.10 254.00	7,090.0	12.3	-263.8	263.9	0.65	-0.62	-3.44
7,132.0 7,164.0	3.00	254.00 255.20	7,121.9	11.7	-265.4	265.4	0.96	0.94	3.75
				11.3	-267.0	267.0	0.58	0.32	9.03
7,195.0	3.10	258.00	7,184.8	11.1	-268.6	268.6	2.40	-1.25	40.62
7,227.0	2.70	271.00	7,216.8		-270.1	270.1	0.38	0.32	4.19
7,258.0	2.80	272.30	7,247.8	11.1 11.2	-271.6	271.6	0.58	0.00	-11.94
7,289.0	2.80 2.60	268.60 267.90	7,278.7 7,310.7	11.2	-271.0 -273.1	273.1	0.63	-0.62	-2.19
7,321.0					-274.5	274.5	0.45	-0.31	-7.19
7,353.0	2.50	265.60	7,342.7	11.0		27 4 .3 275.8	0.41	-0.32	-5.81
7,384.0	2.40	263.80	7,373.6	. 10.9	-275.8	277.1	0.38	0.32	4.52
7,415.0	2.50	265.20	7,404.6	10.8	-277.1	278.4	1.14	-0.65	-22.58
7,446.0	2.30	258.20	7,435.6	10.6	-278.4	270.4	1.62	-1.25	-28.44
7,478.0	1.90	249.10	7,467.6	10.3	-279.6	279.4			
7,510.0	1.80	232.70	7,499.5	9.8	-280.5	280.3	1.68	-0.31 -0.31	-51.25 -36.25
7,542.0	1.70	221.10	7,531.5	9.1	-281.2	281.0	1.15	0.00	-30.23 -19.68
7,573.0	1.70	215.00	7,562.5	8.4	-281.7	281.5	0.58	0.00	-19.66 -4.52
7,604.0	1.80	213.60	7,593.5	7.6	-282.3	281.9	0.35		-4.52 -12.81
7,636.0	1.80	209.50	7,625.5	6.8	-282.8	282.4	0.40	0.00	
7,667.0	1.80	205.10	7,656.5	5.9	-283.2	282.7	0.45	0.00	-14.19
7,699.0	1.80	206.90	7,688.4	5.0	-283.7	283.1	0.18	0.00	5.62
7,731.0	1.90	201.30	7,720.4	4.1	-284.1	283.5	0.65	0.31	-17.50
7,763.0	1.80	193.90	7,752.4	3.1	-284.4	283.7	0.81	-0.31	-23.12
7,794.0	1.90	189.00	7,783.4	2.1	-284.6	283.8	0.60	0.32	-15.81
7,824.0	1.90	191.10	7,813.4	1.1	-284.8	283.9	0.23	0.00	7.00
7,856.0	1.90	207.10	7,845.4	0.1	-285.1	284.2	1.65	0.00	50.00
7,888.0	1.90	224.30	7,877.3	-0.7	-285.7	284.7	1.78	0.00	53.75
7,866.0	2.20	237.60	7,908.3	-1.4	-286.6	285.5	1.81	0.97	42.90
7,919.0	2.30	241.00	7,939.3	-2.0	-287.6	286.5	0.54	0.32	10.97
7,930.0	2.40	244.90	7,971.3	-2.6	-288.8	287.6	0.59	0.31	12.19

Checked By:	Approved By:	Date: